Concrete, Aggregate, Soil, Rocks And Asphalt Testing Equipment Production As Well As Import, Export and technical assistance to Serving Our company, Expert Staff Customer Satisfaction giving priority to quality and Goods Receiving meet expectations in the International Standard Self-Priority Policy as adopted.

We produce all products of Engineering and R & D Studies are conducted within our company.

Electronic Control Unit we use our devices and software are designed and produced by us. Our company is located in the High Technology Products Using the Power. Serial Addition To The use of our Quality Control and Production of Special Test Systems for Use in R & D Studies and designed Devices, Software And Hardware Included All Devices To be is about to produce its own structure. Products Large Construction Site, Ready Mixed Concrete Production Plant, Cement Factory, Brick Factories, Tile Factories, Flooring Factory, Production Facilities in State Institutions Supervision And AR-in D Laboratories, Construction of Universities, mining, machinery, in Geological Engineering as Department Research & Development and Quality control is being used for. Our company based in Turkey Private Sector, Government organizations and universities as well as the World Market and End Users to both the manufacturer and marketing company products and services make. Testers Against Sector Customer Expectations Responsible, Self Excellence in Business Process Targeting Our company constantly develops all the appropriate High Reliability Standards Time is the Sun in the Consumer Products Operation.

JEOTEST World Brand is advancing with sure steps Way of Being:

Becoming Key Component of Concrete Building Materials, Concrete Quality and Strength of All Forms of Hair Structure Performance is very important. The attention to detail in quality concrete production and Haylie More information is needed. JEOTEST LTD STI International and National Standards only appropriate but also in Aggregate Concrete Testing Equipment, Cement And Steel Tester offers.

Customer Requirements Integrated Device Development, design and manufacture of Plant Capacity And Installation And JEOTEST owner of All Forms of Engineers to Provide Comprehensive Study Material Testing Equipment Soil Mechanics Test Systems Sun. Testers in this Section Latest written specifications and Standards Designed and manufactured to suit.

Concrete, Asphalt, Paving and fillers such as Building And Construction Materials Consists Largely of aggregates. General Aggregate Testing General and geometric, mechanical and physical, thermal and also can be grouped as climate Properties. These groups of Particle Size Analysis, Shape And Structure Analysis, Volume And Strength Analysis and Chemical Change Experiments jam as many experiments are inside. JEOTEST, TS EN And like many international and national standards appropriate to the experimental equipment of all Sun.

Basic Use of Bituminous Materials in Road Construction in Engineering. Bituminous Materials mainly consists of two mixture; JEOTEST LTD STI binder and aggregate. Density of Road Traffic Conditions in today’s higher performance demands are increasing. As a result of this experiment Road Building Materials to not only Component Detection Assay Performance Characteristics at the same time be subjected to said. Testers in this Part is suitable to both Turkey and the new European Standard.

Various known has a special guest Cement Binders Inside And especially developed to meet the cement mixture is further enhanced Structure Requirements Special bit. Testers in this Section Latest written specifications and Standards Designed and manufactured to suit.
JEOTEST LTD, Concrete, Aggregates, Concrete, Asphalt And as Supporting Equipment & Accessories in Steel experiment is required for all General Laboratory Equipment Supplier

This Section Steel and includes Universal Testing Machine and Accessories Metal Accessories that are used in mechanical experiments. Used in Reinforced Concrete Structure Steel, Stress and should be evaluated in bending experiments. JEOTEST LTD STI tests for this device and its accessories are suitable with Sun

OUR GOAL
Owned Accumulation we all, our experience and technology to our customers “Seamless Service” philosophy of Transportation will.

OUR PRINCIPLE
Well-trained in the subject, working with experienced staff, Business Management Quality forefront Works And our commitment to high quality in a timely and complete.

Access to Knowledge, Knowledge Generation and Information Age has not discussed the Importance of Using Speed And now Can you be just as effective Organize Important is moving. The Speed and flexibility in every field, Our method, our system, our Human Resources, Information Systems Infrastructure is to work with our organization and our Response.

Our initial goal without compromising with quality, has been committed to customer satisfaction, competitive, to all persons and organizations in which contact with honest and respectful relationships we aim to be in the hereafter Resume. We believe this goal as combining with our Contemporary Governance Principles of Success Brought Age in the coming century we will all embrace More JEOTEST LTD STI.

CORPORATE POLICY
The day we started our activities today reach our targets and we know the right way forever This is progress.
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Testing Sieves

Standards
EN 933-2, ISO 565, 3310-1, 3310-2, ASTM E11

Product Code
JG-066/01 Testing Sieves Ø 200 mm x 60 mm
JG-066/02 Testing Sieves Ø 300 mm x 60 mm
JG-066/03 Testing Sieves Ø 100 mm x 60 mm

Used for bending and straightening steel reinforcing bars.

<table>
<thead>
<tr>
<th>Standard Mesh</th>
<th>Sieve size</th>
<th>Standard Mesh</th>
<th>Sieve size</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 inch</td>
<td>100 mm</td>
<td>No:10</td>
<td>2 mm</td>
</tr>
<tr>
<td>3.1/2 inch</td>
<td>90 mm</td>
<td>No:12</td>
<td>1.7 mm</td>
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<tr>
<td>3 inch</td>
<td>75 mm</td>
<td>No:14</td>
<td>1.4 mm</td>
</tr>
<tr>
<td>2.1/2 inch</td>
<td>63 mm</td>
<td>No:16</td>
<td>1.18 mm</td>
</tr>
<tr>
<td>2.1/2 inch</td>
<td>53 mm</td>
<td>No:18</td>
<td>1 mm</td>
</tr>
<tr>
<td>2 inch</td>
<td>50 mm</td>
<td>No:20</td>
<td>0.850 mm</td>
</tr>
<tr>
<td>1.3/4 inch</td>
<td>45 mm</td>
<td>No:25</td>
<td>0.710 mm</td>
</tr>
<tr>
<td>1.1/2 inch</td>
<td>37.5 mm</td>
<td>No:30</td>
<td>0.680 mm</td>
</tr>
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<td>1.1/4 inch</td>
<td>31.5 mm</td>
<td>No:35</td>
<td>0.580 mm</td>
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<tr>
<td>1 inch</td>
<td>25 mm</td>
<td>No:40</td>
<td>0.425 mm</td>
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<tr>
<td>7/8 inch</td>
<td>22.4 mm</td>
<td>No:45</td>
<td>0.355 mm</td>
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<tr>
<td>3/4 inch</td>
<td>19 mm</td>
<td>No:50</td>
<td>0.300 mm</td>
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<td>5/8 inch</td>
<td>16 mm</td>
<td>No:60</td>
<td>0.250 mm</td>
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<tr>
<td>0.530 inch</td>
<td>13.2 mm</td>
<td>No:70</td>
<td>0.212 mm</td>
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<td>1/2 inch</td>
<td>12.5 mm</td>
<td>No:80</td>
<td>0.180 mm</td>
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<tr>
<td>7/16 inch</td>
<td>11.2 mm</td>
<td>No:100</td>
<td>0.150 mm</td>
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<td>3/8 inch</td>
<td>11.2 mm</td>
<td>No:120</td>
<td>0.125 mm</td>
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<td>9.5 mm</td>
<td>No:140</td>
<td>0.106 mm</td>
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<tr>
<td>1/4 inch</td>
<td>8 mm</td>
<td>No:170</td>
<td>0.090 mm</td>
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<td>1/8 inch</td>
<td>6.3 mm</td>
<td>No:200</td>
<td>0.075 mm</td>
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<td>No:4</td>
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<td>3.25 mm</td>
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<tr>
<td>2.36 mm</td>
<td>2.36 mm</td>
<td>No:500</td>
<td>0.025 mm</td>
</tr>
</tbody>
</table>

Washing Sieve

Product Code
JG-070 Washing Sieve

It is used for testing fine grain materials. These sieves are made out of stainless steel and there are two different sizes available 200 mm diameter, 200, 100 mm height.

ALPINE Air Jet Sieves

Standards
ASTM E 11; BS 410

Product Code
JC-032/1 ALPINE Air Jet Sieves

Ideal for screening of cement, kaolin, drugs, spices, flour powder, etc. Support air jet test sieves of Ø200mm, available from 32 μm and 200 μm.

Flakiness Sieves

Standards
BS 812

Product Code
JA-013/AG Flakiness Sieves

Used to determine particle size shape or geometrical characteristics of the aggregates. Each sieve made from heavy gauge steel sheets in dimensions specified in the standards and coated with electrostatic paint.

<table>
<thead>
<tr>
<th>Model</th>
<th>Slot Size</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA - 013 /01</td>
<td>4.9</td>
<td>326x195x30</td>
<td>1.6</td>
</tr>
<tr>
<td>JA - 013 /02</td>
<td>7.2</td>
<td>340x215x40</td>
<td>1.7</td>
</tr>
<tr>
<td>JA - 013 /03</td>
<td>10.2</td>
<td>360x235x50</td>
<td>1.8</td>
</tr>
<tr>
<td>JA - 013 /04</td>
<td>14.4</td>
<td>380x255x60</td>
<td>2.0</td>
</tr>
<tr>
<td>JA - 013 /05</td>
<td>19.7</td>
<td>400x275x70</td>
<td>2.1</td>
</tr>
<tr>
<td>JA - 013 /06</td>
<td>26.3</td>
<td>420x295x80</td>
<td>2.6</td>
</tr>
<tr>
<td>JA - 013 /07</td>
<td>33.9</td>
<td>470x330x100</td>
<td>3.1</td>
</tr>
</tbody>
</table>
**Grid Sieves**

**Standards**
EN 933-1; NF P18-561; NLT 354; UNI 8520

**Product Code**
JA-014 Grid Sieves

Used to determine the flakiness index of the aggregates. Consists of electrostatic painted frame and 5 mm diameter stainless steel bars.

<table>
<thead>
<tr>
<th>Model</th>
<th>Aperture(mm)</th>
<th>Dimensions(mm)</th>
<th>Weight(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA-014/01</td>
<td>2.5</td>
<td>380x320x80</td>
<td>3.3</td>
</tr>
<tr>
<td>JA-014/02</td>
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<td>JA-014/03</td>
<td>4</td>
<td>380x320x80</td>
<td>3.8</td>
</tr>
<tr>
<td>JA-014/04</td>
<td>5</td>
<td>380x320x80</td>
<td>3.8</td>
</tr>
<tr>
<td>JA-014/05</td>
<td>6.3</td>
<td>380x320x80</td>
<td>3.7</td>
</tr>
<tr>
<td>JA-014/06</td>
<td>8</td>
<td>380x320x80</td>
<td>3.6</td>
</tr>
<tr>
<td>JA-014/07</td>
<td>10</td>
<td>380x320x80</td>
<td>3.4</td>
</tr>
<tr>
<td>JA-014/08</td>
<td>12.5</td>
<td>380x320x80</td>
<td>3.2</td>
</tr>
<tr>
<td>JA-014/09</td>
<td>16</td>
<td>380x320x80</td>
<td>4</td>
</tr>
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<td>JA-014/10</td>
<td>20</td>
<td>380x320x80</td>
<td>3.2</td>
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<td>JA-014/11</td>
<td>25</td>
<td>380x320x80</td>
<td>3.2</td>
</tr>
<tr>
<td>JA-014/12</td>
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<tr>
<td>JA-014/13</td>
<td>40</td>
<td>380x320x80</td>
<td>2.7</td>
</tr>
</tbody>
</table>

**Riffle Box**

**Standards**
ASTM C72; EN 933-3

**Product Code**
JA-015 Riffle Box

Used for dividing aggregates into representative sample increment for testing. Electrostatic painted and manufactured in the slot widths and number of slots as required in the standards. Riffle boxes are supplied complete with 2 containers with handles.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity(lt)</th>
<th>Weight(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA-015/01</td>
<td>7</td>
<td>2.2</td>
</tr>
<tr>
<td>JA-015/02</td>
<td>3</td>
<td>6.2</td>
</tr>
<tr>
<td>JA-015/03</td>
<td>15</td>
<td>8</td>
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<tr>
<td>JA-015/04</td>
<td>19</td>
<td>9.5</td>
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<tr>
<td>JA-015/05</td>
<td>25</td>
<td>12.5</td>
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<tr>
<td>JA-015/06</td>
<td>30</td>
<td>19.9</td>
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<td>26.8</td>
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<td>JA-015/10</td>
<td>64</td>
<td>32.1</td>
</tr>
<tr>
<td>JA-015/11</td>
<td>75</td>
<td>35.3</td>
</tr>
</tbody>
</table>

**Specific Gravity Frame**

**Standards**
EN 1097-6; EN 12390-7

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity(lt)</th>
<th>Weight(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JB-031</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>JB-032</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>JB-033</td>
<td>15</td>
<td>30</td>
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<tr>
<td>JB-034</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>JB-035</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>JB-036</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

**Micron Air-Jet Sieve Shaker**

**Standards**
EN 933-10

**Product Code**
JC-032 Micron Air-Jet Sieve Shaker
JC-032/1 ALPINE Air Jet Sieves
The Air Jet Machine is suitable for sieving powder and dry grain products by obtaining sieving results between 5 to 4000 microns, by using appropriate test sieves 200 mm dia. Its working foundation is based on the use of air that tug thin particles to make them go through the sieve.

- Allowing to perform many tests (some tens) before being replaced. The digital electronic microprocessor panel can adjust:
  - The sieving time from 0 to 99 minutes
  - The vacuum range from 0 to 99 bar
- Power supply: 230V 1ph 50Hz
- Dimensions: 450 x 600 x 400 mm
- Weight: 25 kg
**Universal Sample Splitter**

**Standards**  
EN 932/1; BS 1377; ASTM C702  
ASTM C136, D271-D421  

**Product Code**  
JA-016 Universal Sample Splitter

Designed for the reduction of test samples which are too large in volume to be conveniently handled. It handles any material from sand sizes up to dia. 108 mm. Each chute bar is 12 mm wide so that openings of 12-24-36-48-60-72-84-96-108 mm are possible. Complete with two collecting pans. Clam shell hopper: 30 litres capacity

**Sieve Shaker**

**Standards**  
EN 932-5; ISO 3310-1

**Product Code**  
JG-035/1 Sieve Shaker  
JG-036/1 Sieve Shaker with frequency control

The sieve shaker imparts a circular motion to the material being sieved so that it makes a slow progression over the surface of the sieve. At the same time a feature of the rapid vertical movement agitates the sample which helps to clear the sieve apertures and avoid them blinding. The shaker is fitted with timer which can be pre-set for any duration up to 60 minutes. This unit will accept 200mm and 300mm diameter sieves. Wet sieving kits in the appropriate sizes may be used with this shaker.  

- **Drying Oven**

**Standards**  
ASTM C127; ASTM C136; ASTM D1557; ASTM D1559  
ASTM D550; ASTM D559; ASTM D560; ASTM D698  
BS 1377-1; BS 1924:11; EN 1097-5; EN 932-5

**Product Code**  
JG-038 Drying Oven 50 lt  
JG-039 Drying Oven 120 lt  
JG-040 Drying Oven 250 lt  
JG-041 Drying Oven 500 lt  
JG-042 Drying Oven 750 lt

These ovens have been designed for drying asphalt, soil, rock concrete and aggregate specimens. The models we propose are available in 50, 120, 250, 500, 750 liter capacities. Temperature range is from ambient to 250°C with precision of 1 °C. The interior is made from stainless steel and the exterior is robustly constructed from sheet steel finished in powder coated paint. The insulated chambers are made from clad mild steel. All units are fan circulated and fitted with direct reading digital control unit. 2,3 or 4 shelves supplied according to oven capacity. 220V / 50Hz or 380V / 50Hz

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (lt)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JG -038</td>
<td>50</td>
<td>35</td>
</tr>
<tr>
<td>JG -039</td>
<td>120</td>
<td>50</td>
</tr>
<tr>
<td>JG -040</td>
<td>250</td>
<td>70</td>
</tr>
<tr>
<td>JG -041</td>
<td>500</td>
<td>100</td>
</tr>
<tr>
<td>JG -042</td>
<td>750</td>
<td>140</td>
</tr>
</tbody>
</table>
Muffle Furnaces

Standards
EN 196-2, 196-21, 459-2

Product Code
JG-043 Muffle furnace 1.5 liter
JG-044 Muffle furnace 3.5 liter
JG-045 Muffle furnace 7 liter

JEOTEST Series general purpose furnaces have maximum operating temperature of 1100 °C and can be used for a wide range of applications in many different sectors such as metal, ceramic and food industry, jewelry and dentistry. Their perfect design is ideal for:
- Ashing organic and inorganic samples.
- Firing and sintering of ceramic, stoneware and porcelain.
- Melting, annealing, hardening, tempering, stress relieving and heat treatments of ferrous and non-ferrous metals.
- Chemical decomposition.
- Thermal shock testing.
- High temperature tests of components or finish products.

The chamber of JEOTEST Series furnaces is made of vacuumed fiber board and refractory bricks. By means of the high grade insulation made of fiber board, very good temperature homogeneity is obtained in the chamber. The chimney for discharging the vapors occurring during the operation is offered as standard.

JEOTEST Series furnaces are equipped with PID microprocessor control system which has temperature displays for actual and set temperatures. Growth rate per minute.

Curing Cabinet

Standards
EN 196-1

Product Code
JG-009 Curing Cabinet

Used for curing tests of cement specimens. The curing cabinet provides 20 ± 1°C temperature and 95% humidity for cement specimens. Internal chamber and racks are made of stainless steel. The temperature is maintained at 20 ± 1°C by an immersion heater and refrigerator unit which are supplied complete with cabinet. The cabinet is equipped with digital unit which controls and monitors the temperature. The humidity is maintained from 95% to saturation by water nebulisers and also monitored on digital unit.

220 V, 50-60 Hz, 1 ph
Internal Dimensions: 500x600x800 mm (wxdxh)
External Dimensions: 600x700x1500 mm (wxdxh)

Climatic Chamber

Standards
EN 1367-1; ASTM C671; BS 812,124

Product Code
JC-009 Climatic Chamber

Environmental Testing under your control. JEOTEST Test Cabins are developed to simulate real environmental conditions by controlling temperature, humidity and day & night lighting cycles. By means of their wide temperature and humidity control range various kinds of tests could be performed in different areas. Stability, antifungal aging and storage test can be easily done as well.

The chamber is made of Stainless Steel. The outer body is made of Epoxy coated Galvanic Steel to resist high humidity levels. The lights are located inside the door and protected with a glass window. There is an also internal glass door which allows controlling the samples without disturbing the temperature and humidity conditions inside the chambers.

The insulation becomes more important for the efficiency of the product when cold and hot temperatures are concerned. It is made of high density injected polyurethane. The humidity is produced by the humidity generator and measured by a humidity sensor. The recovery time is fast and humidity measurement is sensitive. The heating function is controlled by PID while cooling and humidity are controlled by proportional system. User friendly control panel includes 128x64 pixel display.

Powerful air circulation system maintains temperature and humidity uniform for JEOTEST Test Cabins. Stability, artificial aging and storage can be easily done at low temperatures. Directional airflow assures quick recovery after door openings. The state-of-art control system is based on programmable microprocessor technology.

- Program name: There are ten programs memories,
- Temperature: - 20 °C / +60 °C
- Humidity Range : %20-%95 RH
- Time: 0-999 hours — 59 minutes +hold position
- No of Step: 1-9
- No of program repetition: 1-99

Hot Plate

Product Code
JG-086 Hot Plate 40x60 cm
JG-087 Hot Plate 30x35 cm
JG-088 Hot Plate two burner
JG-089 Hot Plate two burner

Can be set between room temperature to 370 °C. Controlled by thermostat.

220 V 50 Hz
**Le Chatelier Water Bath**

**Standards**

EN 196-3; EN ISO 9597

**Product Code**

JG-011 Le Chatelier Water Bath

Time and expansion device outlet of the cement samples used in the determination. Bathroom inside the stainless steel, non-electrostatic powder paint, is a digital indicator. Rock with a capacity of 12 patterns are available. Ambient temperature between 95 °C with the runs.

220 V, 50-60 Hz, 1 ph

Weight: 20 kg.

**Water Bath**

**Product Code**

JG-049 14 liters
JG-050 30 liters
JG-051 48 liters

Ideal for general laboratory use including Marshall tests. Internal surfaces of polished stainless steel and housed in a sheet steel insulated outer case. They are offered in different sizes. Thermostatic heat controlled baths are supplied complete with cover. 220 V, 50–60 Hz, 1 ph

**Digital Water Bath With Cooling**

**Product Code**

JG-052 Digital water bath with cooling

Capacity 48 liters. Internal surfaces of polished stainless steel and housed in a sheet steel insulated outer case. Thermostatic heat controlled bath is supplied complete with lid.

**Water Distiller**

**Product Code**

JG-046 Distilled water apparatus 3.5lt
JG-047 Distilled water apparatus 4lt
JG-048 Distilled water apparatus 8lt

**Freezing and Thawing Climatic Chamber**

**Standards**

TS 3449

**Product Code**

JG-063 Freezing and Thawing Climatic Chamber

Used in determining resistance to freezing and thawing. Provides freezing / thawing in air and also freezing in air / thawing in water. The chamber equipped with programmer for 9 programs in 9 steps for each program. Time can be arranged to 360 hours or 360 minutes for each step of program. Temperature range for cabinet is -25°C to +60°C. The control unit is electronic and equipped with digital display with 0,1°C temperature accuracy. The temperature distribution accuracy in the cabinet is not higher than 2°C. Cabinet provides heating from -25°C to +25°C in 60 minutes. Software for data transfer to computer is supplied complete with the cabinet. The cabinet automatically arranges water level in reservoir. It is equipped with water pump which is used for water filling and discharging for soaking. The condenser of the cabinet is fitted with air-cooled hermetic cooler. The gas used for cooler does not include CFC. 230 V, 50 Hz, 1 ph

**Sand Bath**

**Product Code**

JG-346 Sand Bath 31X21X7 internal Tank Dimensions
JG-347 Kum banyosu 44X29X7 iç Hazne Ebadı
JG-348 Kum banyosu 59X44X7 iç Hazne Ebadı

**Jaw Crusher**

**Standards**

UNE 83120

**Product Code**

JA-053 Jaw Crusher

This Jaw Crusher is used for the rapid, gentle crushing and pre-crushing of medium-hard, hard, brittle and tough materials. Its variety of materials offered including heavy-metal free steel, its efficiency and safety

**Application Examples**

- Excellent crushing performance.
- Wide range of materials for contamination free grinding.
- Wear compensation with zero-point adjustment.
- Gap width setting.
- Overload protection.
- No-rebound feed hopper with quick-release clamp.
- Brake motor with safety switch.
- Easy-to-clean crushing chamber.
- Continuous grinding.
- Connector for dust extraction.
**Vibratory Disc Mill**

**Product Code**

JA-054  Vibratory Disc Mill

The Vibratory Disc Mill JA-054 is suitable for the extremely quick, loss-free and reproducible grinding of medium-hard, brittle and fibrous materials to analytical fineness. The instrument runs steadily and smoothly, even with heavy grinding sets, at maximum speed thanks to the new Stabilized-Plane-Drive. With its robust design, the JA-054 has proven to be ideal for use in the building materials sector (cement), in geology, mineralogy, metallurgy and in power plants. Due to the high end fineness and speed the JA-054 is the perfect mill when it comes to preparing samples for spectral analysis.

**Application Examples**

cement, cement clinker, ceramics, coal, coke, concrete, corundum, electronic components;
glass, metal oxides, minerals, ores, plant materials, silicates, slag, soils, ...

**Product Advantages**

- Variable speed 700 - 1,500 min⁻¹
- Extremely short grinding time
- Agate recognition for automatic speed reduction
- 10 SOPs can be stored
- No sample loss thanks to optimum o-ring seal

<table>
<thead>
<tr>
<th>Features</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material feed size*</td>
<td>&lt; 50 mm</td>
</tr>
<tr>
<td>Final fineness*</td>
<td>&lt; 4 mm</td>
</tr>
<tr>
<td>Material of grinding tools</td>
<td>manganese steel, stainless steel, tungsten carbide, steel 1.1750 (for heavy - metal free grinding)</td>
</tr>
<tr>
<td>Jaw width</td>
<td>60 x 60 mm</td>
</tr>
<tr>
<td>Gap width setting</td>
<td>0 - 20 mm</td>
</tr>
<tr>
<td>Gap width display</td>
<td>scale</td>
</tr>
<tr>
<td>Zero point adjustment</td>
<td>yes</td>
</tr>
<tr>
<td>Hinged hopper</td>
<td>yes</td>
</tr>
<tr>
<td>Dust extraction unit</td>
<td>yes</td>
</tr>
<tr>
<td>Collector capacity</td>
<td>2 l</td>
</tr>
<tr>
<td>Drive</td>
<td>1 - phase motor / 3 - phase motor</td>
</tr>
<tr>
<td>Drive power</td>
<td>0.75 kW</td>
</tr>
<tr>
<td>Electrical supply data</td>
<td>different voltages</td>
</tr>
<tr>
<td>Power connection</td>
<td>1 - phase / 3 - phase</td>
</tr>
<tr>
<td>W x H x D closed</td>
<td>320 x 960 x 800 mm</td>
</tr>
<tr>
<td>Net weight</td>
<td>~ 137 kg</td>
</tr>
<tr>
<td>Remark k weight (without hopper etc.)</td>
<td>0.75 kW</td>
</tr>
</tbody>
</table>

**Disc Mill**

**Product Code**

JA-052  Disc Mill

**Applications**

preliminary and fine grinding

chemistry / plastics, construction materials, engineering / electronics, geology / metallurgy, glass / ceramics

medium - hard, hard, brittle

**Field of application**

chemistry / plastics, construction materials, engineering / electronics, geology / metallurgy, glass / ceramics

**Feed material**

medium - hard, hard, brittle

pressure, friction

**Size reduction principle**

medium - hard, hard, brittle

pressure, friction

**Material feed size***

< 20 mm

**Final fineness***

< 50 µm

**Speed at 50 Hz (60 Hz)**

440 min⁻¹ (52 8 min⁻¹)

**Throughput**

up to 150 kg/h

**Material of grinding tools**

zirconium oxide, hardened steel, tungsten carbide, manganese steel

continuous, 0.1 - 5 mm

**Gap width setting**

continuous

**Collector capacity**

2.5 l

**Drive**

3 - phase geared motor

1.5 kW

**Electrical supply data**

different voltages

**Power connection**

1 - phase / 3 - phase

**W x H x D closed**

520 x 630 x 1050 mm

**Net weight**

220 kg
**Roll Crusher**

**Technical Features**

- Roll dimensions: 250 x 150mm
- Max. feed grain size: 12mm
- Final grain size: 0.2-3mm depending on opening between the rolls.
- Machine body is made of steel construction.
- Roll sleeves have a hardness of 500 Brinel.
- Rolls are conically tightened for an easy change.
- Roll opening adjustment by a hand wheel
- Machine is dust proof.
- Carrier body is completely closed and has a collecting pan.
- Motor: 4Hp, 1400Rpm, 380V, 50Hz
- Revolution of the rolls is supplied by a suitable reducer. Tension on rolls is absorbed by a spring system.
- Approx. weight: 450 kg

**Product Code**

- JG-060 Air Compressor 8 Bar / 25 lt
- JG-061 Air Compressor 8 Bar / 50 lt
- JG-062 Air Compressor 15 Bar / 50 lt

**Silica Gel**

**Product Code**

- JG-099 Silica Gel

**Desiccator**

**Product Code**

- JG-093 Vacuum Desiccator 210mm
- JG-094 Vacuum Desiccator 240mm
- JG-095 Vacuum Desiccator 300mm
- JG-096 Vacuum Desiccator 210mm
- JG-097 Vacuum Desiccator 240mm
- JG-098 Vacuum Desiccator 300mm

**Glass Measuring Cylinders**

**Product Code**

- JG-100 Glass Measuring Cylinders 10cc
- JG-101 Glass Measuring Cylinders 25cc
- JG-102 Glass Measuring Cylinders 50cc
- JG-103 Glass Measuring Cylinders 100cc
- JG-104 Glass Measuring Cylinders 250cc
- JG-105 Glass Measuring Cylinders 500cc
- JG-106 Glass Measuring Cylinders 1000cc
- JG-107 Glass Measuring Cylinders (Flat rim) 1000 ml

**Plastic Measuring Cylinders**

**Product Code**

- JG-109 Plastic Measuring Cylinders 10cc
- JG-110 Plastic Measuring Cylinders 25cc
- JG-111 Plastic Measuring Cylinders 50cc
- JG-112 Plastic Measuring Cylinders 100cc
- JG-113 Plastic Measuring Cylinders 250cc
- JG-114 Plastic Measuring Cylinders 500cc
- JG-115 Plastic Measuring Cylinders 1000cc
- JG-106 Plastic Measuring Cylinders 2000cc
**Glass Beaker**

**Plastic Beaker**

**Pyknometer**

**Graduated Glass Bottles**

**Bolon Joje**

**Volumetric Flask**

**Glass Round Flask**

**01 GENERAL TESTING EQUIPMENTS**

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**01 GENERAL TESTING EQUIPMENTS**

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### Petri Dish And Rod

**Product Code**
- JG-153/1 Amber Brown Reagent Bottle
- JG-153/2 Graduated Glass Bottles 500 ml
- JG-153/3 Graduated Glass Bottles 1000 ml
- JG-153/4 Graduated Glass Bottles 2000 ml

### Wash Bottle

**Product Code**
- JG-299Wash Bottle 250 cc
- JG-300Wash Bottle 500 cc
- JG-301Wash Bottle 1000 cc

### Pipette

**Product Code**
- JG-302 Pipette 5 ml
- JG-303 Pipette 10 ml
- JG-304 Pipette 25 ml
- JG-305 Pipette 50 ml
- JG-306 Plastic Pasteur pipette 3 ml
- JG-307 Pipette pump
- JG-308 Glass pipette with pump

### Density Hydrometer

**Product Code**
- JG-309 Density Hydrometer set
- JG-310 Density Hydrometer 700-800
- JG-311 Density Hydrometer 800-900
- JG-312 Density Hydrometer 900-1000
- JG-313 Density Hydrometer 1000-1100
- JG-314 Density Hydrometer 1100-1200
- JG-315 Density Hydrometer 1200-1300
- JG-316 Density Hydrometer 1300-1400
- JG-317 Density Hydrometer 1400-1500
- JG-318 Density Hydrometer 1500-1600
- JG-319 Density Hydrometer 1600-1700
- JG-320 Density Hydrometer 1700-1800
- JG-321 Density Hydrometer 1800-1900
- JG-322 Density Hydrometer 1900-2000
- JG-323 Density Hydrometer kit

### Mixing Tray

**Product Code**
- JG-183 Mixing Tray 27x46x4 cm
- JG-184 Mixing Tray 26x41x4 cm
- JG-185 Mixing Tray 25x36x4 cm
- JG-186 Mixing Tray 23x33x4 cm
- JG-187 Mixing Tray 17x27x4 cm
- JG-188 Mixing Tray 20x20x5 cm
- JG-189 Mixing Tray 30x20x5 cm, Stainless Steel
- JG-190 Mixing Tray 40x30x5 cm, Stainless Steel
- JG-191 Mixing Tray 50x50x5 cm, Stainless Steel
- JG-192 Mixing Tray 60x60x5 cm, Stainless Steel
- JG-193 Mixing Tray 100x100x5 cm, Stainless Steel

### Spatulas

**Product Code**
- JG-183 Mixing Tray 27x46x4 cm
- JG-184 Mixing Tray 26x41x4 cm
- JG-185 Mixing Tray 25x36x4 cm
- JG-186 Mixing Tray 23x33x4 cm
- JG-187 Mixing Tray 17x27x4 cm
- JG-188 Mixing Tray 20x20x5 cm
- JG-189 Mixing Tray 30x20x5 cm, Stainless Steel
- JG-190 Mixing Tray 40x30x5 cm, Stainless Steel
- JG-191 Mixing Tray 50x50x5 cm, Stainless Steel
- JG-192 Mixing Tray 60x60x5 cm, Stainless Steel
- JG-193 Mixing Tray 100x100x5 cm, Stainless Steel
**GENERAL TESTING EQUIPMENTS**

**Brushes**
- Product Code: JG-340 Glass Funnel 100mm
- Product Code: JG-341 Glass Funnel 80mm
- Product Code: JG-342 Glass Funnel 200 mm
- Product Code: JG-343 Plastic Funnel

**Round Scoops**
- Product Code: JG-207 Round Scoops Small
- Product Code: JG-208 Round Scoop Medium
- Product Code: JG-209 Round Scoop Large
- Product Code: JG-210 Round Scoop Extra Large
- Product Code: JG-211 Round Scoop Shovel Special

**Porcelain Evaporating Dish**
- Product Code: JG-212 Porcelain Evaporating Dish 10 cm dia
- Product Code: JG-213 Porcelain Evaporating Dish 12 cm dia

**Porcelain Mortar with Pestle**
- Product Code: JG-214/1 Porcelain Mortar with Pestle 15 cm
- Product Code: JG-214/2 Porcelain Mortar with Pestle 10 cm
- Product Code: JG-214/3 Agate Mortar 12.5 cm

**Crucibles**
- Product Code: JG-214/1 Porcelain crucible 101-30 small
- Product Code: JG-214/2 Porcelain crucible 101-35 Medium
- Product Code: JG-214/3 Porcelain crucible 101-40 Large
- Product Code: JG-214/5 Platinum crucible
- Product Code: JG-216 Iron crucible

**Digital Thermometer**
- Product Code: JG-219 Digital Thermometer (-50 +150 °C)
- Product Code: JG-220 Digital Thermometer (-50 +260 °C)
- Product Code: JG-221 Digital Thermometer (-50 +300 °C)

**Max-Min Thermometer**
- Product Code: JG-223 Max-Min Thermometer (-40/50 °C)
- Product Code: JG-224 Digital Max-Min Thermometer (-40/50 °C)

**Digital Thermo - Hygrometer, Max-Min**
- Product Code: JG-225 Digital Thermo-Hygrometer, Max-Min Thermometer
  - Temperature measurement range: -10 °C to +60 °C
  - Humidity measurement range: 1 - 99%
  - Resolution: 0.1 °C
  - Maximum - Minimum function
  - Dimensions: 110mm X 95mm X 20mm
  - Weight: 171 g
  - 1.5V AA battery

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**GENERAL TESTING EQUIPMENTS**

- **Mechanical Hygrometer-Thermometer-Barometer**
  - Product Code: JG-226

- **Mechanical Hygrometer**
  - Product Code: JG-227

- **Mechanical Thermometer**
  - Product Code: JG-228, JG-229, JG-230, JG-231

- **Non-contact Infrared IR Thermometer**
  - Product Code: JG-239

- **Digital Laser Distance Meter**
  - Product Code: JG-238

- **Glass Thermometers**
  - Product Code: JG-239 to JG-245

- **Viscosity Thermometers**
  - Product Code: JG-256 to JG-261

- **Digital Chronometer**
  - Product Code: JG-254

- **Mechanical Chronometer**
  - Product Code: JG-255

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**SPECIFICATIONS**

**Non-contact Infrared IR Thermometer**
- User selectable Celsius or Fahrenheit
- Laser Targeting, Automatic Data Hold, Auto Power Off
- White Backlit LCD Display
- Audible and visible Overrange indication
- Wide Range: -20 to 500°C (-4 to 932°F)
- Basic Accuracy: ±2% of reading ±2°C/±4°F
- Response Time: Less than 1s
- Resolution: 0.1 up to 200, 1 over 200
- Optical Resolution: 8:1 (Distance to Spot)
- Emissivity: Fixed at 0.95
- Dimensions: 159*79*57mm (H*W*D)
- Weight: 180g

---

**Glass Thermometers**
- JG-239: Max 60°C
- JG-240: Max 110°C
- JG-241: Max 160°C
- JG-242: Max 250°C
- JG-243: Max 310°C
- JG-244: Max 360°C
- JG-245: Max 400°C

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**Viscosity Thermometers**
- JG-256: +19 +27 (0.1)
- JG-257: +37 +42 (0.1)
- JG-258: +49 +57 (0.1)
- JG-259: +57 +65 (0.1)
- JG-260: +79 +87 (0.1)
- JG-261: +95 +103 (0.1)

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**Digital Chronometer**
- JG-254: Mechanical Chronometer

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**Mechanical Chronometer**
- JG-255: Mechanical Chronometer

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**Digital Laser Distance Meter**
- JG-238: Digital Laser Distance Meter Bosch Brand
- **Digital Thermometer Immersion**
  - Product Code
  - JG-250 Digital Thermometer Immersion Type 250 °C
  - JG-251 Digital Thermometer Immersion Type 150 °C

- **Analogue Calipers**
  - Product Code
  - JG-262 Caliper 15 cm
  - JG-263 Caliper 30 cm
  - JG-264 Caliper 60 cm
  - JG-265 Caliper 50 cm
  - JG-266 Caliper 100 cm
  - JG-274 Analog Caliper 20x0,01 Mitutoyo
  - JG-275 Analog Caliper 200x0,02 Mitutoyo
  - JG-276 Analog Caliper 25x0,01 Mitutoyo
  - JG-277 Analog Caliper 300x0,02 Mitutoyo
  - JG-281 Analog Caliper 10x0,01
  - JG-282 Analog Caliper 100x0,05
  - JG-283 Analog Caliper 20x0,01
  - JG-284 Analog Caliper 200x0,05
  - JG-285 Analog Caliper 25x0,01
  - JG-286 Analog Caliper 300x0,05

- **Digital Calipers**
  - Product Code
  - JG-267 Caliper 15 cm Digital
  - JG-268 Caliper 30 cm Digital
  - JG-269 Caliper 50 cm Digital
  - JG-270 Digital Caliper 20x0,01 Mitutoyo
  - JG-271 Digital Caliper 25x0,01 Mitutoyo
  - JG-272 Digital Caliper 30x0,01 Mitutoyo
  - JG-287 Digital Caliper 10x0,01
  - JG-288 Digital Caliper 20x0,01
  - JG-289 Digital Caliper 25x0,01
  - JG-290 Digital Caliper 30x0,01

- **Caliper For Shape Index**
  - Product Code
  - JG-270 Caliper for shape index, imported
  - JG-271 Caliper for shape index

- **Filter Papers**
  - Product Code
  - JG-324 Square Filter Paper, 40 cm
  - JG-325 Round Filter Paper without holes
  - JG-326 Small Round Filter Paper 1 pack
  - JG-327 Big Round Filter Paper, 1 pack
  - JG-329 Methylene Filter Paper, imported
  - JG-330 Methylene Filter Paper
  - JG-331 Filter Paper for CBR

- **PH Indicator**
  - Product Code
  - JG-328 PH INDICATOR MERCK PH Indicator (0-14) non bleeding 100 strips

- **Dial Indicator**
  - Product Code
  - JG-344 Mechanical Dial Indicator, Graduation: 0.001 mm
  - JG-345 Digital Dial Indicator, Graduation: 0.001 mm

- **Calibration Masses Class M1**
  - Product Code
  - JG-349/001P Stainless Steel 1 g
  - JG-349/005P Stainless Steel 5 g
  - JG-349/01P Stainless Steel 10 g
  - JG-349/05P Stainless Steel 50 g
  - JG-349/1P Stainless Steel 100 g
  - JG-349/5P Stainless Steel 200 g
  - JG-349/001PC Stainless Steel 1 g
  - JG-349/005PC Stainless Steel 5 g
  - JG-349/01PC Stainless Steel 10 g
  - JG-349/05PC Stainless Steel 50 g
  - JG-349/1PC Stainless Steel 100 g
  - JG-349/5PC Stainless Steel 200 g
  - JG-349/20P Stainless Steel 2 kg
  - JG-349/50P Stainless Steel 5 kg
  - JG-349/100P Stainless Steel 10 kg
  - JG-349/200P Stainless Steel 20 kg
  - JG-349/500P Stainless Steel 50 kg
  - JG-349/10PDC Nickel-Plated Steel 500 g
  - JG-349/10PDC Stainless Steel 1 kg
  - JG-349/20PDC Stainless Steel 2 kg
  - JG-349/50PDC Stainless Steel 5 kg
  - JG-349/100PDC Stainless Steel 10 kg
  - JG-349/200PDC Stainless Steel 20 kg
  - JG-349/500PDC Stainless Steel 50 kg
  - JG-349/1PDC Stainless Steel 1 kg
  - JG-349/5PDC Stainless Steel 5 kg
  - JG-349/10PDC Stainless Steel 10 kg
  - JG-349/20PDC Stainless Steel 20 kg
  - JG-349/50PDC Stainless Steel 50 kg
**GENERAL TESTING EQUIPMENTS**

### Calibration Masses Class F1 Set

<table>
<thead>
<tr>
<th>Product Code</th>
<th>JG-350/1 set</th>
<th>JG-350/2 set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>Weight</td>
<td>Quantity</td>
</tr>
<tr>
<td>1</td>
<td>1 gr</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>2 gr</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>5 g</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>10 gr</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>20 gr</td>
<td>2</td>
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<tr>
<td>1</td>
<td>50 gr</td>
<td>1</td>
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<tr>
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<td>2 kg</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>5 kg</td>
<td>1</td>
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</tbody>
</table>

### Calibration Masses Class F1

<table>
<thead>
<tr>
<th>Product Code</th>
<th>JG-350/20020 KG Calibration Mass Class F1</th>
</tr>
</thead>
<tbody>
<tr>
<td>JG-350/10010 KG Calibration Mass Class F1</td>
<td></td>
</tr>
</tbody>
</table>

Weights are supplied complete with certificate of conformity from Ministry of Industry and Trade.

### Single Calibration Mass M1 Class

<table>
<thead>
<tr>
<th>Product Code</th>
<th>JG-350</th>
<th>Single Calibration Mass 2 kg M1 Class</th>
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</thead>
<tbody>
<tr>
<td>JG-351</td>
<td>Single Calibration Mass 5 kg M1 Class</td>
<td></td>
</tr>
</tbody>
</table>

### Moisture Tin

<table>
<thead>
<tr>
<th>Product Code</th>
<th>JG-332</th>
<th>Diameter: 150 mm Height: 170 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>JG-333</td>
<td>Diameter: 125 mm Height: 150 mm</td>
<td></td>
</tr>
<tr>
<td>JG-334</td>
<td>Diameter: 125 mm Height: 100 mm</td>
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</tr>
<tr>
<td>JG-335</td>
<td>Diameter: 105 mm Height: 100 mm</td>
<td></td>
</tr>
<tr>
<td>JG-336</td>
<td>Diameter: 80 mm Height: 45 mm</td>
<td></td>
</tr>
<tr>
<td>JG-337</td>
<td>Diameter: 70 mm Height: 45 mm</td>
<td></td>
</tr>
<tr>
<td>JG-338</td>
<td>Diameter: 55 mm Height: 35 mm</td>
<td></td>
</tr>
<tr>
<td>JG-339</td>
<td>Diameter: 50 mm Height: 40 mm</td>
<td></td>
</tr>
</tbody>
</table>

**GENERAL TESTING EQUIPMENTS**

### Calibration Masses Set

| Product Code | JG-349 | Calibration Masses Set 1gr - 1000 gr |

### JG-383 Rubber Hammer

### JG-378 Feeler Gauges Set

### JG-379 Magnetic Stirrer with Heater

### JG-380 Angle Gauge

### JG-381 Trowel (Plaster Type)

### JG-384 Hammer

### JG-378 Tongs

### JG-379 Magnetic Stirrer with Heater

### JG-386 Heat Resistant Gloves

### JG-387 Graduated Square

### JG-385 Cutter

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GENERAL TESTING EQUIPMENTS

- JG-388 Engineers Square with Base
- JG-389 Chalk
- JG-390 Spoon
- JG-391 Scoop
- JG-392 Wrench

- JG-395 Pocket Ph meter
- JG-397 Tamping rod
- JG-398 scissors
- JG-400 Air Drier
- JG-399 Fan

- JG-394 Clamp
- JG-396 Steel Tape 5 m
- JG-408 Laboratory Cart
- JG-409 Flat Trolley
- JG-404 Small Knife

- JG-401 Wire Basket
- JG-405 Fastener
- JG-410 Stand
- JG-411 Small Stand holder
- JG-420 Levelling Boards

GENERAL TESTING EQUIPMENTS

- JG-477 Gas Mask
- JG-442 Powdered Gloves
- JG-443 Pipette For Burette
- JG-433 Zip Lock Bag
- JG-434 Waxey Sample Bag
- JG-446 Carpentry Screw Clamp
- JG-451 Calculator
- JG-444 Three Way Rubber Pipette
- JG-435 1.5 X 1.5 m Oilcloth
- JG-376 Standard Sand

1 pack 1,350 g ± 5 g.

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**Scales**

1. Precision Balances
2. Analytical Balances
3. Moisture Analytical
4. Specific Weight Scale
5. Heavy Scales
6. Mass Calibration Set

---

**Micro Balance 0.000001 g (0.001 mg)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (g)</th>
<th>Readability</th>
<th>Pan Size (mm)</th>
<th>Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>MYA 21.3YP</td>
<td>21</td>
<td>1</td>
<td>26</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>MYA 5.3Y</td>
<td>5</td>
<td>1</td>
<td>26</td>
<td>INTERNAL</td>
</tr>
</tbody>
</table>

---

**Semi Microbalances 0.00001 g (0.01 mg)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (g)</th>
<th>Readability</th>
<th>Pan Size (mm)</th>
<th>Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS 60/220 C/2 (LCD)</td>
<td>60/220</td>
<td>0.00001/0.0001</td>
<td>70</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>XA 82/220/X (GRAPHIC)</td>
<td>82/220</td>
<td>0.00001/0.0001</td>
<td>85</td>
<td>INTERNAL</td>
</tr>
</tbody>
</table>

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**Analytical Balances 0.0001 g (0.1 mg)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (g)</th>
<th>Readability</th>
<th>Pan Size (mm)</th>
<th>Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS 110 C1 (LCD)</td>
<td>110</td>
<td>0.0001</td>
<td>85</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>AS 220 C/2 (LCD)</td>
<td>220</td>
<td>0.0001</td>
<td>85</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>AS 220 R.2 (LCD)</td>
<td>220</td>
<td>0.0001</td>
<td>85</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>AS 220/X (GRAPHIC)</td>
<td>220</td>
<td>0.0001</td>
<td>85</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>AS 220/3Y</td>
<td>220</td>
<td>0.0001</td>
<td>85</td>
<td>INTERNAL</td>
</tr>
<tr>
<td>AS 310 R.2 (LCD)</td>
<td>310</td>
<td>0.0001</td>
<td>85</td>
<td>INT. &amp; EXT.</td>
</tr>
</tbody>
</table>
### SEMI ANALYTICAL BALANCES 0.0001 g (0.1 mg)

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Readability</th>
<th>Pan Size</th>
<th>Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>WTB 200</td>
<td>200 g</td>
<td>0.001 g</td>
<td>115 mm</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 360 R.1</td>
<td>360 g</td>
<td>0.001 g</td>
<td>128*128</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 360 R.2</td>
<td>360 g</td>
<td>0.001 g</td>
<td>128*128</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 510 R.1</td>
<td>510 g</td>
<td>0.001 g</td>
<td>128*128</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 600 C/2-R.2</td>
<td>600 g</td>
<td>0.001 g</td>
<td>128*128</td>
<td>I.n.t. &amp; E.xternal</td>
</tr>
<tr>
<td>PS 750 R.1</td>
<td>750 g</td>
<td>0.001 g</td>
<td>128*128</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 750 C/2-R.2</td>
<td>750 g</td>
<td>0.001 g</td>
<td>128*128</td>
<td>I.n.t. &amp; E.xternal</td>
</tr>
<tr>
<td>PS 1000 C/2-R.2</td>
<td>1000 g</td>
<td>0.001 g</td>
<td>128*128</td>
<td>I.n.t. &amp; E.xternal</td>
</tr>
<tr>
<td>PS 200/2000 C/2</td>
<td>200/2000 g</td>
<td>0.001/0.01 g</td>
<td>128*128</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 1000.3Y (CON)</td>
<td>1000 g</td>
<td>0.001 g</td>
<td>128*128</td>
<td>I.n.t. &amp; E.xternal</td>
</tr>
</tbody>
</table>

### PRECISION BALANCES 0.01 g (10 mg)

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Readability</th>
<th>Pan Size</th>
<th>Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLC 0.6/B/1</td>
<td>600 g</td>
<td>0.01 g</td>
<td>125*145</td>
<td>E.xternal</td>
</tr>
<tr>
<td>WTB 2000</td>
<td>2000 g</td>
<td>0.01 g</td>
<td>125*145</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 3500 R.1</td>
<td>3500 g</td>
<td>0.01 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 3500 R.2</td>
<td>3500 g</td>
<td>0.01 g</td>
<td>195*195</td>
<td>I.n.t. &amp; E.xternal</td>
</tr>
<tr>
<td>PS 4500 C/1-R.1</td>
<td>4500 g</td>
<td>0.01 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 4500 R.2</td>
<td>4500 g</td>
<td>0.01 g</td>
<td>195*195</td>
<td>I.n.t. &amp; E.xternal</td>
</tr>
<tr>
<td>PS 6000 C/1-R.1</td>
<td>6000 g</td>
<td>0.01 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>PS 6000 R.2</td>
<td>6000 g</td>
<td>0.01 g</td>
<td>195*195</td>
<td>I.n.t. &amp; E.xternal</td>
</tr>
<tr>
<td>PS 8000 R.1</td>
<td>8000 g</td>
<td>0.01 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
</tbody>
</table>

### PRECISION BALANCES 0.01 g (100 mg)

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Readability</th>
<th>Pan Size</th>
<th>Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLC 3/6/A2</td>
<td>3/6 kg</td>
<td>0.05/0.1 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>WLC 10/A2</td>
<td>10 kg</td>
<td>0.1 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>WLC 20/A2</td>
<td>20 kg</td>
<td>0.1 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>WLC 30</td>
<td>30 kg</td>
<td>0.1 g</td>
<td>300*300</td>
<td>E.xternal</td>
</tr>
</tbody>
</table>

### SPECIFIC WEIGHT SCALES

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Readability</th>
<th>Pan Size</th>
<th>Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS-Z / 6</td>
<td>6 kg</td>
<td>0.1 g</td>
<td>270*220</td>
<td>E.xternal</td>
</tr>
<tr>
<td>ACS-Z / 30</td>
<td>30 kg</td>
<td>0.5 g</td>
<td>270*220</td>
<td>E.xternal</td>
</tr>
<tr>
<td>JS-BM / 6</td>
<td>6 kg</td>
<td>0.1 g</td>
<td>300*230</td>
<td>E.xternal</td>
</tr>
<tr>
<td>JS-BM / 30</td>
<td>30 kg</td>
<td>0.5 g</td>
<td>300*230</td>
<td>E.xternal</td>
</tr>
</tbody>
</table>

### MOISTURE ANALYZERS BALANSEC 0.001 g

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Readability</th>
<th>Pan Size</th>
<th>Calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLC 3/6/A2</td>
<td>3/6 kg</td>
<td>0.05/0.1 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>WLC 10/A2</td>
<td>10 kg</td>
<td>0.1 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>WLC 20/A2</td>
<td>20 kg</td>
<td>0.1 g</td>
<td>195*195</td>
<td>E.xternal</td>
</tr>
<tr>
<td>WLC 30</td>
<td>30 kg</td>
<td>0.1 g</td>
<td>300*300</td>
<td>E.xternal</td>
</tr>
</tbody>
</table>
## HEAVY SCALES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CAPACITY</th>
<th>READABILITY</th>
<th>PAN SIZE</th>
<th>CALIBRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCI-60</td>
<td>60 kg</td>
<td>2 g</td>
<td>350*400</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>DCI-150</td>
<td>150 kg</td>
<td>5 g</td>
<td>400*500</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>DCI-300</td>
<td>300 kg</td>
<td>10 g</td>
<td>500*600</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>DCI-600</td>
<td>600 kg</td>
<td>20 g</td>
<td>700*800</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>DCI-1500</td>
<td>1500 kg</td>
<td>50 g</td>
<td>1000*1000</td>
<td>EXTERNAL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CAPACITY</th>
<th>READABILITY</th>
<th>PAN SIZE</th>
<th>CALIBRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBN-60</td>
<td>60 kg</td>
<td>5 g</td>
<td>350*400</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>DBN-150</td>
<td>150 kg</td>
<td>10 g</td>
<td>400*500</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>DBN-300</td>
<td>300 kg</td>
<td>20 g</td>
<td>500*600</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>DBN-600</td>
<td>600 kg</td>
<td>50 g</td>
<td>700*800</td>
<td>EXTERNAL</td>
</tr>
<tr>
<td>DBN-1500</td>
<td>1500 kg</td>
<td>100 g</td>
<td>1000*1000</td>
<td>EXTERNAL</td>
</tr>
</tbody>
</table>

**Steven Blanks**

www.jeotest.com.tr
**Concrete Compression Machine**

**Standards**
- EN 12390-4, BS 1881:115, ASTM C39

**Product Code**
- JB-068  2000 KN Beton Test Pressi
- JB-071  3000 KN Beton Test Pressi

A compression test determines behavior of materials under crushing loads. The specimen is compressed and deformation at various loads is recorded. There are two type frame in available as 4- Columns type or Wall type.

Suitable for testing 150 * 150 * 150 , 200 * 200 * 200 mm cube and 150 * 300 mm cylinder concrete samp.

- It has rigid load frame in 4- columns construction. The columns are screwed free from play to the machine's foot and head.
- Machine's foot and head are cut from the solid, all bearing surfaces are mechanically machined.
- Compact frame, formed by upper and lower platens. Platens machined on all sides, hardened and on both sides face ground.
- Upper platen spherically seated to allow an inclination up to 3° for homogeneous loading.
- Lower platen marked to allow centring of both cubes and cylinders.
- Test cylinder has single acting feature, cut from the solid (no screwed in bottom).
- Distance plates for different size samples (10mm, 20mm, 50mm, 80mm).
- Piston is hardened and micro finished
- Piston stroke limitation by end-switches.
- Piston protection made of sheet steel – against dirt.
- Security door ( fixed in rear of the frame and openable/closable in front ).

Depending on electrical safety switch, the test machine just works if the door is closed.

**Specifications**

<table>
<thead>
<tr>
<th>Product code</th>
<th>JB-068</th>
<th>JB-071</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>2000</td>
<td>3000</td>
</tr>
<tr>
<td>Piston stroke</td>
<td>50 mm</td>
<td>50 mm</td>
</tr>
<tr>
<td>Lower platen dia.</td>
<td>300 mm</td>
<td>300 mm</td>
</tr>
<tr>
<td>Upper platen cap.</td>
<td>300 mm</td>
<td>300 mm</td>
</tr>
<tr>
<td>Vertical opening</td>
<td>750 mm</td>
<td>750 mm</td>
</tr>
<tr>
<td>Horizontal opening</td>
<td>350 mm</td>
<td>350 mm</td>
</tr>
<tr>
<td>Hardness of platens</td>
<td>55 HRC</td>
<td>55 HRC</td>
</tr>
<tr>
<td>Loading rate</td>
<td>0.1 - 25 KN/S</td>
<td>0.1 - 25 KN/S</td>
</tr>
<tr>
<td>Dimensions</td>
<td>915 x 490 x 1115</td>
<td>955 x 500 x 1775 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>900 Kg</td>
<td>1150 Kg</td>
</tr>
</tbody>
</table>

**Full Automatic Hydraulic Unit**

- Double pump system.
- Pumps are imported from Hawe (Germany).
- Can adjust speed automatically.
- Adjustable load rate between 0.5 and 25 kN /s
- Accuracy is ± 0.5 % of indicated load
- Used imports transducer for pressure sensor with ± 1% precision.
- Can connect to any unit in the laboratory.
- 220 V / 50 Hz
- Comes with LCD screen.
- Dimensions 430x410x935mm

**Digital Readout Unit**

LCD graphics data acquisition and controls system PCM304 is designed to control the machine and processing data from load cells or pressure transducers installed on the compression machine frame. Easy to read LCD graphics display and touch-button data pad keys make the unit quick and straight forward to operate. All interactions with the measuring system are via the front control panel by using simple menu-driven procedures.

The PCM304 is contained in light alloy housing and its design satisfies the ergonomic requirements for various use. The PCM304 digital allows real time load us time graph. At the end of the test cycle, the results can be stored in the large memory or downloaded to a PC in PCM304 software format. Dedicated software package is available for further online data processing data base management and certificate printing.

- 240*120 pixel blue-white graphic LCD display.
- High resolution 65.000 points.
- Backlight function.
- Capability of contrast calibration by light.
- 21 key touch membrane keyboard.
- Two analogical and two digital channels, use for load cell or pressure transducer etc.
- Standalone full automatic testing capacity.
- Can make manual tests if requested.
- A sample type and dimension can be entered respect to the standards,
- Load-Time, Tensile-Time, Test Results and Sample reports observable and printable.
- One RS232 serial port for connecting either PC or printer for data transmission.
- Comes with Connection cable and software.
- Large permanent memory up to 256 test results.
- Language select, English — Turkish.

**Full Automatic Flexural Test Machine**

**Standards**
- TS EN 1390-3; ASTM C78, 293

**Product Code**
- JB-075  Full Automatic Flexural Test Machine

Testing of flexural test on standard concrete beams, transverse test on kerbs and flagstones, indirect tensile tests on concrete and interlocking pavers.

For center and third point loading

The distance of both pair of loading and support rollers can be easily adjusted

The distance of both pair of loading and support rollers can be easily adjusted

Max. load capacity 200 KN.

Independent Hydraulic Unit.

Piston Travel 75 mm.

Pressure transducer with accuracy
**SPLITTING TENSILE Device for Cylindrical Specimens**

**Standards**
ASTM C 496, TS EN 12390-6

**Product Code**
JB-083 Device for Cylindrical Specimens
Used for testing cylindrical specimens dia. 150x300 mm.

**SPLITTING TENSILE Device for cube Specimens**

**Standards**
EN 12390-6

**Product Code**
JB-085 Device for cube Specimens
Used for testing concrete cube specimens 150 mm.

**Compression Pipe Testing Machine**

**Standards**
EN 1916, ASTM C301, C497

**Product Code**
JB-091 Compression pipe testing machine
Comes with GLCD screen
Compression pipe testing machine was designed to conduct vertex compression testing with full load testing without impact or blows on tubes and preformed parts which are made of concrete, steel fiber concrete and reinforced concrete.
Test pipes with diameter 100 mm minimum – 1200 mm maximum.
Load capacity is 500 kN.
Full automatic hydraulic unit.
Double pump system.
Adjustable load rate between 0.5 and 25 kN/s.
Accuracy is

**Kerbs Flexure and Concrete Compressing Testing Machine**

**Standards**
TS EN 1390-5; ASTM C78, 293; AASHTO R7; BS 1881:118

**Product Code**
JG-004 Kerbs Flexure and Concrete Compressing Testing Machine
- Fully Automatic computerized system.
- Load capacity 20 Ton (200 KN).
- Load cell with digital control unit.
- Loading speed control.
- Pressure relief valve.
- Test can be made manually or automatically.
- Max vertical daylight : 160 mm.
- Distance between upper rollers: 400 mm.
- Distance between lower rollers: 1000 mm.
- Distance between rollers adjustable.
- Rollers dia: 20 mm.
- Rollers Hardness : 40 HRC
- Comes with test software.
- Comes with splitting tensile test device.
- 220-240 V 1 ph 50 Hz

**BIMS COMPRESSION Testing Machine**

**Standards**
EN 12390-4; BS 1881.115; ASTM C39; EN 771-3

**Product Code**
JG-004 Bıms Compressıon Testing Machine
- Fully Automatic computerized system.
- 80-120 Ton (800 kN -1200 kN) capacity.
- Compression platens dimensions 500x310x50 mm.
- Compression platens Hardness : 55HRC.
- Distance piece using to minimize Vertical daylight until 100 mm.
- Vertical daylight 300 mm.
- Loading speed control.
- Pressure relief valve.
- Test can be made manually or automatically.
- Comes with test software.
- Distance pieces should be ordered separately.
- 220-240 V 1 ph 50 Hz.
**Tiles Flexural Testing Machine**

**Standards**
EN 1340

**Product Code**
JK-429

- Machine is supplied complete with load cell.
- Digital load cell indicator shows load and breaking load.
- Loading is made by using electric motor.
- Motor speed control using variable frequency drive.
- Comes with flexural device.
- 220-240 V 1 Ph 50 Hz.

**Tile Bending Device**

**Standards**
EN 1338

**Product Code**
JK-001

- 40x40x1 cm tiles will be made according to.
- Capacity: 5 tons.
- Bending Apparatus with.
- Speed 75 mm / sec.
- Load Indicator load cell.
- Breaking load values with holder remains on the screen.

**Concrete Impermeability Apparatus**

**Standards**
EN 12390-8 ; ISO 7031

**Product Code**
JB-047/1 Set of 8 Upper Racks.
JB-047/2 Water circulating Pump.
JB-047/3 Thermostatically controlled heater.

The curing tank is designed for curing concrete cubes and cylinders. The temperature can be set and maintained to the required value by an electric resistance incorporating a thermoster which maintains set temperature between ambient to 40°C with ± 2°C accuracy. The tank is supplied complete with base rack. Suitable upper racks to hold concrete cubes are available on request (max. 8 pieces). The tank is also supplied with a submersible circulator pump to assure good temperature uniformity.

230 V 50–60 Hz, 1 ph.

**Concrete Cube Moulds**

**Standards**
AASHTO T126; AASHTO T23; ASTM C 192; ASTM C 39; EN 12390-1

**Product Code**
JB-004
JB-005
JB-006
JB-007

Cast iron, hard plastic or steel cube moulds are manufactured in accordance to dimensions and tolerances stated in the related standards. Four part and clamp attached base plate cast iron and steel moulds are designed to be durable, resistant and easy to clean.

<table>
<thead>
<tr>
<th>Model</th>
<th>JB-004</th>
<th>JB-005</th>
<th>JB-006</th>
<th>JB-007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Made Of</td>
<td>Steel</td>
<td>Plastic</td>
<td>Steel</td>
<td>Steel</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>150x150x150</td>
<td>150x150x150</td>
<td>200x200x200</td>
<td>100x100x100</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>16.2</td>
<td>2.2</td>
<td>20</td>
<td>7</td>
</tr>
</tbody>
</table>
Concrete Beam Moulds

Standards
- AASHTO T126, AASHTO T23, ASTM C 192
- ASTM C 39, EN 12390-1

Steel beam moulds are manufactured in accordance with dimensions and tolerances stated in the related standards. Two part and clamp attached base plate steel moulds are designed to be durable, resistant, and easy to clean.

<table>
<thead>
<tr>
<th>Model</th>
<th>JB-008</th>
<th>JB-009</th>
<th>JB-010</th>
<th>JB-011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (mm)</td>
<td>100x100x400</td>
<td>100x100x500</td>
<td>100x100x600</td>
<td>100x100x750</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>18.5</td>
<td>20.3</td>
<td>38.4</td>
<td>40</td>
</tr>
</tbody>
</table>

Cylinder Mould

Standards
- EN 12390/1, ASTM C39, C192, AASHTO T23, T126

Product Code
- JB-012 100x200 mm Steel cylinder mould.
- JB-013 150mmx300mm Steel cylinder mould.
- JB-014 150x300 mm Plastic cylinder mould.

Vibrating Table

Standards
- EN 12390-2

Product Code
- JB-025/1 Vibrating Table

The JEOTEST fixed amplitude vibrating table is a compact unit providing controlled vibro-compaction in the laboratory using cube or cylinder moulding equipment. Vibrating tables consist of vibrating motor, control unit and clamping assembly. Cylinder moulds or beam moulds.

Operates with 220 Volt, 50 Hz supply.
Weight(Kg) : 70

Melting Pot

Standards
- AASHTO T126 ; AASHTO T23 ; ASTM C 192
- ASTM C 31 ; ASTM C 617 ; EN 12390-3

Product Code
- JB-051 Melting Pot

Used for melting capping compound (sulphur).
The apparatus consists of an aluminium container in a well-lagged steel jacket, cover and thermostatic control heating system to keep the temperature constant in the range of 40-150ºC.

Capacity : 5 lt.
Dimensions: 400x300x300 mm.
Weight : 8.5 Kg.
Power : 600 W.

Slump Test Set

Standards
- AASHTO T119 ; ASTM C 143 ; BS 1881:102 ; EN 12350-2

Product Code
- JB-022 Slump Test Set.
- JB-022/1 Tamping rod 16x600 mm.
- JB-022/2 Steel ruler.
- JB-022/3 Rubber mallet.
- JB-022/4 Laboratory shovel.
- JB-022/5 SLUMP cone.

The Slump test method is used for the determination of the consistency, the medium and high workability of fresh concrete.
The set consists of slump cone, slump cone funnel, 600 mm long x 16 mm diameter tamping rod which is hemispherical at both ends, base plate, rubber mallet and steel rule. Supplied either galvanized or paint coated to prevent corrosion.
CONCRETE

Flow Table

Standards
BS 1881:105 ; EN 12350-5

Product Code
JB-023/1 Flow Cone.
JB-023/2 Wooden Tamper.

The test set is used for concrete mixes of high workability. The test determines flow index as an arithmetic mean of the diameter of the specimen after working on a flow table. The apparatus consists of a double steel table, the upper table measuring 700x700 mm and hinged at one side to the lower table. The top table is inscribed and all parts are protected against corrosion. The galvanized steel cone has a top 130 mm dia., base 200 mm dia., and is 200 mm high. Supplied complete with wooden tamping rod. Dimensions(mm) 700x700x110.

J RİNG

Standards
EN 11045

Product Code
JG-445 J RİNG

J RİNG, galvanized steel, rectangular section 30 x 25 mm and median diameter of 300 mm, rings bars dia. 10 x 100 mm, The bars have distance of 48 mm CONE MOULD, galvanized steel. Square base plate, galvanized steel.

Vebé Consistometer

Standards
EN 12350-3

Product Code
JB-039 Vebé Consistometer

The method is a mechanised variation of the slump test and includes determination of workability of fresh concrete by performing vibration to concrete after removal of the slump cone. The assembly is mounted upon a small vibrating table operating at a fixed amplitude and frequency. The time to complete the required vibration gives an indication of the concrete workability. The set consists of vibrating table, slump cone, graduated rod with transparent plate, filling cone and tamping rod. Dimensions(LxWxH) 280x220x710 mm. Weight 90 Kg.

Pan Type Concrete Mixer

Standards
EN 12504-2

Product Code
JB-041 Pan Type Concrete Mixer

The mixer is used for efficient mixing of concrete, plaster and mosaic. 125 lt capacity lightweight mixer is equipped with rubber wheels which provide high portability.

Drum Type Concrete Mixer

Product Code
JB-040 Drum Type Concrete Mixer

Drum Capacity 135 Lt.
Mixing Volume 125 Lt.
Production Per Hour 2 - 3 m³
Electric Motor 0,75 KW
Dimensions(L x W x H) 62 x 130 x 110 cm
Weight 98 Kg.

Air Entrainment Meter

Standards
AASHTO T152 ; ASTM C 231 ; EN 12350-7

Product Code
JB-036 /JB-036/1 Tamping Rod.
JB-036/2 Straight Edge.
JB-036/3 Manometer.

The apparatus is used to determine air content of fresh concrete. It consists of a flanged 7 liter capacity cylindrical vessel and cover assembly incorporating a pressure gauge air pump and valves. The meter measures up to 22% entrained air with an accuracy of ±0.25% at full scale. It is appropriate for aggregates size of maximum 50 mm. The instrument can be calibrated and it is supplied complete with straight edge and tamping rod. Weight: 3.5 Kg.

Specific Gravity Frame

Standards
EN 1097-6 ; EN 12390-7

Product Code
JB-050/1 Specific Gravity Frame.
JB-050/2 Cradle.
JB-050/3 Water Tank.

Used in conjunction with a suitable electronic balance for specific gravity determination of fresh and hardened concrete and aggregates. A purpose built robust frame designed to support the electronic balance. The lower part of the frame incorporates a moving platform, which carries the water tank allowing the test specimens to be weighed in both air and water. The balance is not included in the test set and must be ordered separately. Any type of electronic balance fitted with under-bench weighing facility can be used. Lifting device, cradle and plastic water tank are supplied complete with frame. Dimensions: 400x300x770 mm. Weight: 25.5 Kg.

www.jeotest.com.tr
Poker Vibrator

Standards
AASHTO T126 ; AASHTO T23 ; ASTM C 192
ASTM C 31 ; EN 12390-2

Product Code
JB-027  Poker Vibrator

Poker Vibrator is ideal for the internal compaction of concrete specimens and a good alternative to traditional tamping bar especially when there are large numbers of specimens to be compacted. Flexible shaft length and tip diameter can be selected upon user’s request. 220–240 V, 50–60 Hz, 1 ph.

<table>
<thead>
<tr>
<th>Model</th>
<th>JB -027</th>
<th>JB -027/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø38x400</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Ø25x100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>10000</td>
<td>9000</td>
</tr>
</tbody>
</table>

Kelly Ball Apparatus

Standards
ASTM C 360

Product Code
JB-016  Kelly Ball Apparatus

Kelly Ball Apparatus measures the workability of concrete. It is considered to be much simpler and faster than the slump test. This field test determines the depth to which the apparatus will sink under its own weight into fresh concrete. It can be used on site or in the laboratory. It consist of a cylinder with ball-shaped bottom and 14 kg weight stirrup handle graduated by ¼ inch.

Dimensions :  150 x 330 x 330 mm.

Weight :  16 kg.

Concrete Mortar Pevelroveter

Standards
AASHTO T197 ; ASTM C 403 ; UNI 7123

Product Code
JB-019 Pocket Penetrometers

The apparatus is used for determination of setting time of the mortar fraction of fresh concrete. The apparatus consists of a spring loading device which is graduated from 2 to 150 lbs, supplied complete with a set of needle points of 650, 325, 160, 65, 32, and 16 mm² area. A sliding ring indicates the load reached.

Weight(kg)  2 kg.

Masonry Saw

Standards
EN 1367-3

Product Code
JB-043  Masonry Saw

The Masonry Saw has been developed to cut and prepare test samples of concrete, rock specimens and cores. It is available in three different models. Special clamp assembly allows specimens to be held during cutting operation. The machine is supplied complete with circulation water pump.

<table>
<thead>
<tr>
<th>Model</th>
<th>Small</th>
<th>Junior</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade dia (mm)</td>
<td>350</td>
<td>450</td>
<td>600</td>
</tr>
<tr>
<td>Max. Cutting(mm)</td>
<td>110</td>
<td>175</td>
<td>250</td>
</tr>
<tr>
<td>Cutting Length(mm)</td>
<td>700</td>
<td>600</td>
<td>650</td>
</tr>
<tr>
<td>Motor (Hp)</td>
<td>3.0 - 220 V</td>
<td>5.5 - 380 V</td>
<td>5.5 - 380 V</td>
</tr>
<tr>
<td>Motor for cutting with water(Hp)</td>
<td>0.50 - 220 V</td>
<td>0.50 - 220 V</td>
<td>0.50 - 220 V</td>
</tr>
<tr>
<td>Dimensions (lwxwxh) (mm)</td>
<td>1100x600x250</td>
<td>1100x600x250</td>
<td>1300x700x950</td>
</tr>
<tr>
<td>Weight(kg)</td>
<td>75</td>
<td>80</td>
<td>90</td>
</tr>
</tbody>
</table>
Electric Core Drilling Machine

**Product Code**
JG-053 Electric Core Drilling Machine
Coring angle: 360°

Poker Vibrator is ideal for the internal compaction of concrete specimens and a good alternative to traditional ramming bar especially when there are large numbers of specimens to be compacted. Flexible shaft length and tip diameter can be selected upon user’s request. 220–240 V, 50–60 Hz, 1 ph.

<table>
<thead>
<tr>
<th>Kerat Bıçağı</th>
<th>Inside Dia mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>JG - 054</td>
<td>50</td>
</tr>
<tr>
<td>JG - 055</td>
<td>75</td>
</tr>
<tr>
<td>JG - 056</td>
<td>100</td>
</tr>
<tr>
<td>JG - 057</td>
<td>125</td>
</tr>
<tr>
<td>JG - 058</td>
<td>150</td>
</tr>
<tr>
<td>JG - 059</td>
<td>200</td>
</tr>
</tbody>
</table>

Compaction Factor Apparatus

**Standards**
TS EN 12390-3; BS 1881:103

**Product Code**
JB-042 Compaction factor apparatus

Designed to undertake a more precise and sensitive test procedure than the simple slump test. The apparatus consists of two conical hoppers mounted on a cylinder.
Galvanized double steel sheet flow table with top plate
The compaction factor is the ratio of the weight of the partially compacted concrete and the weight of the fully compacted concrete.
Supplied complete with tamping rod dia. mm 16x600 long.
Dimensions: 500x400x1510 mm.
Weight: 55 Kg

V Funnel

**Standards**
UNI 11042, Rilem report No. 23

**Product Code**
JB-054 V Funnel

The apparatus is used to evaluate the segregation resistance of freshly mixed self compacting concrete by the observation of the flowing speed due to the difference of samples remaining period in the funnel.
The test set consists of a stainless steel funnel placed vertically on a supporting stand. The discharge orifice is equipped with a lid, which can be momentarily opened.
Dimensions: 570x920x300 mm.
Weight: 6 Kg.

U Shape Box

**Standards**
EN 11044

**Product Code**
JB-057 U Shape Box

The U Shape Box is used to determine the confined flowability and the capacity of SCC concrete to flow within confined spaces.
The box is made of galvanized steel frame consisting of four 10 mm diameter and three 13 mm diameter bars.
Dimensions: 200x280x680 mm.
Weight: 25 Kg.

L Shape Box

**Standards**
EN 11044

**Product Code**
JB-057 L Shape Box

The L Shape Box is used for evaluation of self compactability (confined flowability) of freshly mixed self compacting concrete.
The box gives the opportunity to evaluate different properties, such as filling ability, passing ability and resistance to segregation.
Dimensions: 700x200x600 mm
Weight: 18 Kg.

Waltz Container

**Standards**
EN 12350-4; DIN 1048; UNI 9420

**Product Code**
JB-020 Waltz Container

Waltz Container is used for determining the degree of compactability and consistency of fresh concrete. It consists of metal box with two handles.
Box is electrostatic dyed.
Dimensions: 200 x 200 x 400 mm (w x d x h).
Weight: 5 kg.
**Rebound Concrete Test Hammer N Type**

- **Standards**
  - EN 12504, 2; ASTM C805; UNI 9189; DIN 1048; BS 1881:202; NF P18-417

- **Product Code**
  - JB-058

- **Suitable for concrete structures and buildings, having finished Resistances strength.**

- N-type.

- Spring impact energy: 0.225 mJkg (2.207 Joule).

- Strength range: 10 to 70 N/mm² (100 to 700 kgf/cm²).

- Calibration curve chart in N/mm² (Mpa) values.

- Aluminum frame.

- Carrying Case.

- Carborundum stone for abrasive.

- Spare Test Spring.

- Phillips screwdriver.

**Digital Concrete Test Hammer N Type**

- **Standards**
  - EN 12504, 2; ASTM C805; UNI 9189; DIN 1048; BS 1881:202; NF P18-417

- **Product Code**
  - JB-058/1

- **Suitable for concrete structures and buildings, having finished Resistances strength.**

- N-type.

- Spring impact energy: 0.225 mJkg (2.207 Joule).

- Strength range: 10 to 70 N/mm² (100 to 700 kgf/cm²).

- Calibration curve chart in N/mm² (Mpa) values.

- Aluminum frame.

- Carrying Case.

- Carborundum stone for abrasive.

- Spring Test Spring.

- Phillips screwdriver.

**Calibration Anvil**

- **Standards**
  - EN 12504:2

- **Product Code**
  - JB-060

- **The average of every 100 test results, are used to calibrate the test attractive.**

- Weight: 6 kg.

**Cylinder Capping Equipments**

- **Standards**
  - TS EN 12390/2; ASTM C617,C31,C192; AASHTO T23,T216

- **Product Code**
  - JB-015

- **Cylinder Samples Capping Frame.**

- Model for Cylinders, 75, 100 and 150 mm.

- Comprising a vertical support, mounted on a steel base.

**Pull Off Tester**

- **Standards**
  - EN 1542; EN 1015-12; EN 13687-2
  - EN 13683; EN 14496

- **Product Code**
  - JT-1789

- **This dynamometer provides you with information on both the adhesive force and the tensile strength of two layers of materials: lime, facing plasters, mortars, building plasters, cements, concrete and resistance of anchoring studs.**

- Compact, light (3.5 Kg.), stand-alone.

- Load is applied by turning the crank.

- The reading is achieved through a digital display or a dial indicator's pointer which becomes blocked at the peak level of the testing.

- Models of different capacities are available and adhesion.

- Metal discs having dia. 20 and 50 mm can be used, depending to the expected pull force.

- The instrument is supplied without accessories to be ordered separately.

- To carry out the test a common electric drill is required.

**Ultrasonic Device**

- **Product Code**
  - Ultrasonic Device

- **2 piezoelectric probe 55 kHz**

- **2 cable (3.6 m).**

- **Oscilloscope.**

- **Low battery notification.**

- **System calibration.**

- **Complete with bag.**
**Reinforcement Detection Device**

**Product Code**
JB-063 Reinforcement Detection Device

- Measuring Depth: 180 mm.
- Reinforcement Diameter: 6 mm - 50 mm.
- Supplied with Calibration Certificate.
- Dimensions: 210 mm x 153 mm x 90 mm h.
- Weight: 1350 g.

**Crack Detection Microscope**

**Product Code**
JT/CM Crack Detection Microscope

The equipment is used to measure the crack width in the concrete elements. The equipment is supplied with an adjustable light source and adjustable focus to have a better and clearer view for the crack. The measuring range for the microscope is 0 to 10 mm, with divisions of 0.1 mm and subdivisions of 0.01 mm. The magnification ability of the microscope is x50.

**Sieve Set**

**Standards**
EN 1542; EN 933-2; ISO 565
ISO 3310-1/2; ASTM E11

**Product Code**
JG-065 (Glenammer, imported certificate from England)
JG-066 JEOTEST Brand

Hoop dia 200 mm
31.5, 22.4, 16, 11.2, 8, 5.6, 4, 2, 1, 0.5, 0.25, 0.125, 0.063 mm
with 13 piece analysis sieve, lid and receiver

www.jetest.com.tr
Marshall Stability Machine

Standards:
ASTM D1559; AASHTO T245, T283, BS 598:107NF
P98-251-2, DIN 1996; CNR N0 30; pr EN 12697-34

Product Code
JAS-005 Marshall Stability Machine
JAS-005/1 Breaking Head 100 mm.
JAS-005/2 Breaking Head 150 mm.
JAS-005/3 Indirect tensile assembly 100 mm.

The Marshall Stability Test Machine is used to determine the load and flow values of bituminous mixtures. The JAS 005 comprises a compact two column frame with an electro-mechanical ram with a maximum capacity of 50 kN and a data acquisition and processing system.

The machine can be hand operated by a lateral hand wheel for calibration purposes. The mechanical jack raises the lower cross beam at a constant speed of 50.8 mm/min. The limit switches are provided for the both, bottom and top limit of travel.

The measuring system consists of a 50 kN capacity strain gauge load cell fitted to the upper cross beam to read stability values and a 25 mm x 0.001 mm displacement transducer fitted to the Breaking Head.

Power : 220V 50 Hz.
Weight : 70 kg.

Marshall Compactor

Automatic Marshall Compactor

Standards:
EN 12697-10, EN 12697-30, ASTM D6926, AASHTO T245

Product Code
JAS-022 Automatic Marshall Compactor

Automatic Marshall compactor use to produce Marshall Specimen from hot mix asphalt.

Machine features a rotating mold mechanism and a hammer with a beveled foot, which together produce a kneading action when producing test pills. The machine’s automatic counter allows the operator to preset the number of blows wanted and will turn off the machine when completed. The unit includes a compression pedestal, BS EN 598 safety standards for manufactured 12697-30. This block contains a laminated wood 30 mm sq x 25 mm thick metal plate is protected.

Mechanism of action in weight 4.53 kg, 457 mm to the desired height to allow access and free-fall. The unit is fully compliant to changes in standards. Mould set should be ordered separately.

Dimensions : 1880 x 535 x 535 mm.
Power : 220 V 50 Hz.
Weight : 185 kg.

Marshall Extruder

Product Code
JAS-007 MARSHALL EXTRUDER

Sample extruder is designed to easily extrude samples from Marshall moulds. It is 30kN capacity and supplied complete with manual hydraulic jack. The extruder can also be used for CBR and Proctor moulds with suitable adaptors.

Dimensions: Ø300x540 mm
Weight : 12 Kg

Marshall Mould

Standards:
ASTM D 6926; EN 12697-10

Product Code
JAS-006 Marshall Mould
JAS-006/1 Baseplate.
JAS-006/2 mould body
JAS-006/3 Collar

To produce the Marshall specimens with automatic or hand compactors. Comprising base plate, mould body and collar.

Weight: 4 kg.
**Ductimeter Test Instrument**

**Standards**
EN 13589:2003; ASTM D113; AASHTO T51

**Product Code**
JAS-017 DUCTILOMETER TEST INSTRUMENT
JAS-017/1 OCTILOMETER MOULD

used to determine bitumen ductility. The elongation of briquet mould is controlled under special conditions. Ductility device has a moveable sliding rod on a guide line, driver motor, plunging type heater with digital thermostat, cooling unit and a big tank where the pump is placed.

It works automatically with a velocity of 50 mm/min and has maximum stroke of 1500 mm.

Tank and external frame are insulated with stainless steel and glass fiber. Temperature of water bath is held constant at 25 °C ± 0.5 °C.

**Technical Specifications**
Size 2140 x 350 x 750 mm.
Weight 130 kg.
Electrical supply 220 V, 1ph, 50 Hz.
Loading speed 50 mm/min.
Max. Stroke 1500 mm.
Temperature 25 °C ± 0.5 °C.

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**Core Drilling Machine**

**Standards**
ASTM D5; EN 1426; AASHTO T49; BS 2000; CNR 24

**Product Code**
JAS-018 Core Drilling Machine
JAS-018/1 Coring Bit 50mm dia.
JAS-018/2 Coring Bit 100mm dia.
JAS-018/3 Coring Bit 150mm dia.

The compact and portable core drilling machine is designed to cut cores up to 150 mm diameter from concrete, asphalt and similar hard construction material.

The machine comprises a vertical support column which carries the drill head/motor assembly. The motor assembly comprises a 6.5 Hp petrol engine.

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**Mobile Pavement Core Drill Machine Penetrometer**

**Standards**
ASTM D5; EN 1426; AASHTO T49; BS 2000; CNR 24

**Product Code**
JAS-019 Mobile Pavement Core Drill Machine
JAS-018/1 Coring Bit 50mm dia.
JAS-018/2 Coring Bit 100mm dia.
JAS-018/3 Coring Bit 150mm dia.

Petrol engine, 50, 100, 150 mm in diameter is used for sampling. The machine is easily transportable thanks to the portable structure and wheels. Water spray apparatus is mounted on.

Fixed at 4 points during the coring location. Motor power 6.5 hp.

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**Manual Penetrometer**

**Standards**
ASTM D5; EN 1426; AASHTO T49; BS 2000; CNR 24

**Product Code**
JAS-008 Manual Penetrometer

Used to determine the consistency of a bituminous sample under fixed conditions of load, time and temperature. The penetration is expressed in distance of tenths of millimeters vertically penetrated by a standard needle. The standard penetrometer is ruggedly constructed, with a base table in light alloy with levelling screws, plated vertical rod, micrometric vertical adjustment device. The slider is brass made with free fall. The dial, division 0.1 mm. The penetrometer is supplied with stop and release push button, automatic zero set, micrometer adjustment, set of weights 50 and 100 g. penetration needle, two sample cups dia. 55x25 mm and 70x45 mm.

Dimensions: 220x170x410 mm.
Weight: 11 Kg.

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**Semi-Automatic Penetrometer**

**Standards**
ASTM D5; EN 1426; AASHTO T49; BS 2000; CNR 24

**Product Code**
JAS-009 Semi-Automatic Penetrometer
JAS-009/1 Penetration Needle.
JAS-009/2 Transfer Dish.
JAS-009/3 Sample Cup.

Used to determine the consistency of a bituminous sample under fixed conditions of load, time and temperature. The penetration is expressed in distance of tenths of millimeters vertically penetrated by a standard needle. Basically structured as mod. magnetic controller device with electronic digital programmable timer that automatically releases the plunger head and ensures free falling of the needle during the 5-seconds test.

Power: 220-240 V 1ph 50 Hz 200 W.
Dimensions: 220x280x410 mm.
Weight: 15 Kg.

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**Cleveland Open Cup Flash And Fire Point Tester**

**Standards:** EN 22592; ASTM D92; AASHTO T48

**Product Code:** JAS-025 CLEVELAND OPEN CUP FLASH AND FIRE POINT TESTER

To determine the “open-cup”, flash and fire points of oil products with a flash point above 80°C.

Calibrated cup, Gas or liquid gas lighting device above the cup.

550 W electric thermostatic heater.

Power supply: 220-240 V 1ph 50 Hz 550 W

Dimensions: 220 x 220 x 450 (h) mm.

Weight: 11 Kg.

**Reflux Extractor**

**Standards:** AASHTO T164 B; ASTM D2172

**Product Code:**
- JAS- 002 Reflux Extractor 1000 gr.
- JAS- 003 Reflux Extractor 4000 gr.
- JAS- 003/1 Filter Paper 400mm dia (pack of 50).

Used for the quantitative determination of bitumin in hot-mixed paving mixtures and pavement samples. The Reflux Extractor is available in two, 1000 g and 4000 g capacity models. The apparatus comprises a cylindrical glass jar, two wire mesh cones with interlocking frames, a water condenser with inlet/outlet tubes, hot plate and 50 filter papers.

Power: 220 V, 50–60 Hz, 1 ph.

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAS- 002</td>
<td>5</td>
</tr>
<tr>
<td>JAS- 003</td>
<td>8</td>
</tr>
</tbody>
</table>

**Centrifuge Extractor Machine Penetrometer**

**Standards:** AASHTO T164A, ASTM D2172, EN 12697-1

**Product Code:**
- JAS- 020 Centrifuge Extractor 1500 gr capacity.
- JAS- 020/1 Filter Paper for 1500 gr.
- JAS- 020/2 Filter Paper for 3000 gr.

The centrifuges are used for the determination of bitumen percentage in bituminous mixtures. All models comprise a removable precision-machined rotor bowl housed in a cylindrical aluminium box. They are driven by an electric motor fitted with AC drive (inverter) with the double function of speed control up to 3600 r.p.m. regardless of the frequency (50 or 60 Hz) and electrical braking. The rotating unit is suspended on the base by four calibrated springs, which assure a perfect stability all over the test. The cover is precisely machined and fitted with solvent resistant gasket to avoid leakages. The control panel includes: Start/Stop button, speed control knob. The Centrifuge Extractor is available in two, 1500g and 3000g capacity models. The apparatus is supplied complete with 100 filter papers.

Power: 220 V, 50–60 Hz, 1 ph.

**Marshall Mixer**

**Standards:** EN 12697-35

**Product Code:**
- JAS- 001 Bituminous Mixture Tests
- JAS- 001/1 Mixing Bowl 5 lt.
- JAS- 001/2 Mixing Whisk

The 5 liter capacity mixer is designed for mixing of samples to be used for mechanical test as for example compaction, indirect tensile, Marshall etc. The bituminous mix must be prepared at prescribed temperature for this reason the mixer can equipped with thermostatically controlled heater. The user can choose speeds easily by using switch fitted to the machine. The mixer is made of stainless steel and supplied complete with 5lt capacity bowl and the beater. Comes with isomantle heater.

Power: 220 V, 50-60 Hz, 1 ph.

Dimensions: 650x600x380 mm.

Weight: 100 Kg.

**OTO Automatic Ring and Ball Apparatus (Softening Point)**

**Standards:** EN 1427, ASTM D36, AASHTO T53

**Product Code:** JAS- 015 OTO Automatic Ring and Ball Apparatus (Softening Point)

The machine can save temperature for each bitumen sample separately even the difference between two samples. The bath temperature is measured by an electronic system maintaining the gradient (5°C./min) as specified by the Standards. A magnetic stirrer with electronic speed adjustment from 0 to 160 rpm also ensures an uniform temperature in the vessel during the test execution. Two test parameters can be selected by the microprocessor menu:

- Test on boiled distilled water for softening point from 30 to 80°C.
- Test on glycerol for softening point from 80 up to 150°C.

The unit consists of, Electronic Control Unit, Temperature sensor (Probe), Optical sensors, Electric Heater, Magnetic Stirrer, Beaker, Ring holder, 10 balls and 10 rings. Automatic softening point machine is used to determine the softening point of the bitumen which is designed for EN 1427, ASTM D36, AASHTO T53.

Specifications

- Heater: 0,8 KW.
- Weight: 22 kg
- Dimensions: 320x400x455 mm
- Power Supply: 220 – 240V 1ph 50/60Hz.

www.jeotest.com.tr
**ASPHALT**

**Manuel Ring and Ball Apparatus (Softening Point)**

**Standards**
- ASTM D36, AASHTO T53-NFT 66 008, BS 2000, UNI2011 UNE7111, CNR N° 35

**Product Code**
- JAS-015 Manuel Ring and Ball Apparatus (Softening Point)
- JAS-015/1 Magnetic Stirrer with Heater
- JAS-015/2 Rings
- JAS-015/3 Steel balls
- JAS-015/4 Ball centering apparatus
- JAS-015/5 Pyrex breaker
- JAS-015/6 Thermometer

Manuel softening point machine is used to determine the softening point of the bitumen. The unit consists of a pyrex breaker, two tapered rings, two ball centering guides and two balls, thermometer, holder and heater.

**Specifications**
- **Weight**: 12 kg.
- **Dimensions**: 320x400x455.
- **Power Supply**: 220 – 240V 50/60Hz.

**Engler Viscometer**

**Standards**
- EN 12846; EN 13357; ASTM D 940; D 1665
- AASHTO T54; BS 2000 NF T66-020; CNR N° 1021

Engler viscometer is used to compare the specific viscosity of road-oils and tars to the viscosity of water. It consists of a water bath complete with digital precision thermoregulator, electric stirrer, cooling device, Engler flask.

**Power supply**: 220-240 V 1 ph 50 Hz 300 W.
**Dimensions**: 265x270x550 mm.
**Weight**: 12 kg.

**Two Tube Saybolt Viscometer**

**Standards**
- ASTM D88, AASHTO T72, UNE 7066-UNE 51021

**Product Code**
- JAS-010 Two Tube Saybolt Viscometer
- JAS-010/1 Saybolt Viscosity Bottle 60 ml

The two tube saybolt viscometer is used to determine the viscosity of petroleum products at specified temperatures between 70 to 210 °F. Stainless steel made, the Saybolt viscometer is supplied complete with two interchangeable orifices “Funnel” and “Universal”, oil bath, electric heater with digital thermoregulator, stirrer, cooling coil, viscosity flask. Thermometers, filter funnel, withdrawal tube “are not included” and must be ordered separately. The viscometer is equipped of a dual safety thermostat to prevent accidental over-heatings.

**Power supply**: 230 V 1 ph 50 Hz 300 W.
**Dimensions**: 270x270x550 mm.
**Weight**: 12 Kg.

**Thin Film Oven TFOT**

**Standards**
- ASTM D2872; AASHTO T240, CNR N° 54 ; EN 13303

**Product Code**
- JAS-016 Thin Film Oven TFOT

The thin film oven is used to measure the air and heat effect on a moving film of asphaltic semisolid materials. External frame and internal chamber are stainless steel made with insulated fiberglass intermediate chamber. Provided of large glass door for inspections. The oven must be connected to a suitable air pressure supply.

**Power supply**: 230 V 1 ph 50 Hz 1300W.
**Dimensions**: 620x620x910 mm.
**Weight**: 55 Kg.

**Rolling Thin – Film Oven**

**Standards**
- ASTM D2872; AASHTO T240

**Product Code**
- JAS-016 Rolling Thin – Film Oven

The rolling thin film oven is used to measure the effect of heat and air on a moving film of semi-solid asphaltic material. The results of this treatment are determined from measurements of the asphalt properties before and after the test. Internal chamber is stainless steel, provided of large glass door for inspection. Comes with 8 pcs of glass container.

**Dimensions**: 730 x 750 x 630 mm.
**Power supply**: 220 V 50 Hz.
**Weight**: 96 Kg.

**Water Bath**

**Standards**
- ASTM D1559

**Product Code**
- JG-049 14 liters.
- JG-050 30 liters.
- JG-051 48 liters.

Water bath is ideal for general laboratory use including Marshall tests. Internal surfaces of polished stainless steel and housed in a sheet steel insulated outer case. They are offered in different sizes. Thermostatic heat controlled baths are supplied complete with cover.

**Power supply**: 220 V, 50–60 Hz, 1ph.
Emulsified Asphalt

Product Code
JG-017 EMULSIFIED ASPHALT

Used for the determination of cut-back asphaltic materials by the distillation test. The set is formed by: aluminium still container, glass connectors including condenser, stands, graduated cylinder, two thermometers ASTM 7C range -2 to +300°C, bunsen burner with gas stop valve controlled
Weight: 12 Kg.

Benkelman Beam Device

Product Code
JG-478 BENKELMAN BEAM DEVICE

Benkelman Beam Device, aluminium alloy made, complete with dial indicator and accessories, is utilized to measure the deflection of the road surface when loaded by the wheels of vehicles. The beam is put in contact with the pavement under test between the tires of the vehicle. The measurement of the deflection is performed when the vehicle passes over the test area. Length of the Benkelman beam is 250 cm. Beam fulcrum ratio 4:1 Supplied complete with wooden carrying case.
Weight: 15 Kg

Traveling Beam Device Machine

Product Code
JAS- 017 Traveling Beam Device

The Travelling Beam Device is used for detecting surface irregularities in both concrete and asphalt pavement. The apparatus consists essentially of a 3 meter length beam with rigid wheels at the extremities and a wheel at the middle, which can detect any vertical deviation of the surface from a straight-line between the two wheels at the ends of the machine. Measuring capacity of the device is ±25 mm with 5mm increments. It comprises manual dye marker which can mark irregular surfaces of the road.
Beam Length: 3 m.
Weight : 60 Kg

Adhesion Test Apparatus "Vialit Plate" Machine Penetrometer

Product Code
JAS- 024 "Vialit Plate" Adhesion Test Apparatus

“Vialit plate” adhesion test apparatus is used to assess the adhesion property of aggregates to bitumen. The apparatus consists of a metal basement with three vertical pointed rods to hold the test plate, vertical rod 50 cm high with a shot at the upper end for the steel ball to drop, a 512 g steel ball, 6 metal test plates, hand operated rubber lined roller with lead shots ballest.
Weight: 40 kg.

Non Nuclear Electromagnetic Density Gauge

Product Code
JAS- 024/050 Non Nuclear Electromagnetic Density Gauge

- Pavement tests.
- Real time measurements, in a continuous mode.
- LCD visualization of:
  - Average density.
  - % Maximum density.
  - % Air voids.
- No moisture or temperature corrections are needed.
- Non Nuclear device, so maximum safety for operator
- Setting on a referenced test plate only the first time the device is turned on.
- Storing up to 999 measurement data records and RS-232 computer interface.
- Infrared sensor for an accurate measurement of the road surface.
- Rechargeable batteries for 32h continuous usage.
- Charging supply for standard 230V/50Hz or 12Vcc.
Dimensions: 229x406x152 mm
Weight     : 5 Kg

The Electromagnetic Density Gauge is a non nuclear sensing device that allow field density real time measurement of asphalt. This techni-cally advanced instrument for quality control allow operators to immediately identify spots with low pavement density and trigger correc-tive actions leading to more uniform pavements.
Density measurements are related to the dielectric property of asphalt in the first 40 mm of depth. This instrument allow continuous reading along the pavement to detect air voids or non uniformity.
The telescoping handle is projected to perform many measure-ments without bending.Tests can be executed also at high tempera-tures, when the pavement is still hot (max 175°C). The Electromagnetic densimeter allow:
ASPHALT

Nuclear Moisture and Density Gauge

Standards:
ASTM D6938, D2950, C1040, AASHTO T310

The gauge features a menu-driven control panel with easy-to-use built-in test routines and auto features, making testing a quick and accurate operation. It also features our innovative trigger release handle that eliminates pinched fingers while providing smooth operation. Available in 8” (200mm) and 12” (300mm) lengths with either 1” (25mm) or 2” (50mm) increments, the EZ gauge provides a single gauge solution to density and moisture measurements. The gauge’s versatility allows it to measure density through direct transmission and backscatter modes, as well as including thin lift and trench modes, as well as moisture determinations. The gauge uses an advanced micro-processor-based technology to provide highly-accurate measurements of density and moisture that are automatically computed for direct readouts of wet density, dry density, moisture content, percent of moisture, percent of compaction (Proctor or Marshall), void ratio and air voids. The EZ Gauge complies with all pertinent standards: ASTM D6938, D2950, C1040 and AASHTO T310. The gauge is calibrated by the five-block calibration method.

-Menu driven.
-Backlit in test routines.
-4 lines x 20 alphanumeric character backlit liquid crystal display.
-Real time clock and self-calibration.
-Direct readings in engineering units.
-Inexpensive, easy-to-replace 1,600-hour batteries.
-Completely contained automatic indexing.
-Thin layer asphalt measurements & trench correction.
-Expansion module for storage of up to 320 measurements.
-Optional computer or printer interface via infrared RS232 port.
-Menu driven.

Dimensions: 660 x 585 x 355 mm
Power: 220 V 50 Hz.
Weight: 41 kg.

Vacuum Picnometer

Standards:
EN 12697-3, EN 13108, ASTM D0241, AASHTO T209, T283

Transparent plexiglass made, complete with valve and gauge, it is utilized for a rapid determination of asphalt content, bulk specific gravity of aggregates, the max. theoretic specific gravity of bituminous uncompacted road mixtures and the percent air voids in compacted mixtures. The unit provides asphalt content of bituminous paving mixtures accurate to 0.11%, with a fast, accurate, environmentally friendly, and cost effective method of determining asphalt content.

Functionality:
- As the procedures are simple, man can test with 3 buttons:
  1) Press the button “Heat”.
  2) Once the device states, place the samples.
  3) Press “Age”.

- Optional remote control and data collection system enables to control the device over Ethernet or modem.
- Device shows max. and min. temperatures at the end of test. Optional battery (ups or battery) holds the system in function in case of energy interruption or volatility.
- Optional remote control and data collection system enables to control the device over Ethernet or modem.

Pressurized Aging Cabinet

Standards:
ASTM 6037, AASHTO TP3, BS (DD)
NCAT (National Centre for Asphalt Technology)

The unit provides asphalt content of bituminous paving mixtures accurate to 0.01%, with a fast, accurate, environmentally friendly, and cost effective method of determining asphalt content.

Product Code:
JAS-024/069, Pressurized Aging Cabinet

PAV, according to Strategic Highway Research Program (SHRP) instruction, it simulates the ageing the service oxidation ageing of asphalt compound materials. It is according to ASTM standard D6521 and AASHTO standard method R28. PAV system complete with ASME – code stainless steel box comprising heater, stainless steel pressure cabin, sensible sample holder capable to hold 10 pcs sample simultaneously, 1 set totally 10 pcs TFOT sample tray, pressure controller, pressure and temperature measure unit, sample placing and take out spatula.

Specifications of General System

- Compact, desk top type and with internal pressure cabin. Pressure cabin lid can be opened over a support shoe for easy manipulation of samples. Internal timer unit shows the total excess time except user defined entered values during 20 hours test (this lasts approx. 10 min during 20 hours test).
- Device shows max. and min. temperatures at the end of test. Optional battery (ups or battery) holds the system in function in case of energy interruption or volatility.
- Optional remote control and data collection system enables to control the device over Ethernet or modem.
- Front panel screen; 4 rows, 20 characters, lightened, LCD screen, 4 function button, 4 way button and enter/cancel button.
- Optional battery system: min. 4 h.

Test Parameters

- Pressure Cabin:
  - Pressure measurement: 2.10 ± 0.05 MPa (21 bar).
  - Temperature interval: 90°C _ 110°C.
  - Temperature control; platinum RTD, microprocessor based.
  - Temperature control accuracy: ± 0.1°C.
  - Test temperature distribution: ± 0.5°C.
  - Reach time to preconditioning temperature: 3 h (at ambient temperature).
  - Excess temperature control; internal high temperature alarm (135°C) thermal closing key (170°C).

- Pressure Cabin:
  - Pressure measurement: 2.24 ± 0.04 MPa (22.4 bar).
  - Pressure safety valve: 2.24 ± 0.04 MPa (22.4 bar).
  - Air inlet: ¼ inch male NPT.

- Pressure Cabin:
  - Pressure measurement: 2.24 ± 0.04 MPa (22.4 bar).
  - Pressure safety valve: 2.24 ± 0.04 MPa (22.4 bar).
  - Air inlet: ¼ inch male NPT.

- Pressure Cabin:
  - Pressure measurement: 2.24 ± 0.04 MPa (22.4 bar).
  - Pressure safety valve: 2.24 ± 0.04 MPa (22.4 bar).
  - Air inlet: ¼ inch male NPT.
Asphalt Sieve Set

Standards
EN 993-2, ISO 565
ISO 3310-1/2, ASTM E11

Product Code
JG-068 JETEST Brand

Hoop dia 200 mm
3" - 2 1/2", 2" - 1 1/2", 1" - 3/4", 1/2", 3/8"
No: 4 - 8 - 10 - 30 - 40 - 50 - 80 - 100 - 200
with 17 piece analysts sieve, lid and receiver
Automatic Soil Compactor

Standards
- AASHTO T180, AASHTO T193, AASHTO T99
- ASTM D1557, ASTM D698, BS 1377-4, BS 1990
- EN 13286-2, EN 13286-47

Product Code
- JZ-030 Automatic Soil Compactor
- JZ-030/1 ASTM Rammer
- JZ-030/2 EN Rammer

The Automatic Soil Compactor is designed to provide a fully automatic uniform compaction of Standard / Modified and CBR specimens assuring conformity with the reference standard. Compactor is equipped with programmable digital counter which allows machine to stop at the preset numbers of blows. The height and weight of the rammer is adjustable to suit test requirements. The drop weight is adjustable to 300 mm drop height and is also adjustable to 450 mm drop height. The rammer is circular faced with a 50 mm diameter and is adjustable to 2.5 kg. or 4.5 kg. An automatic blow pattern ensures effective compaction for each layer of soil and the rammer travels across the mould. The table rotates the mould in equal steps and the number of blows per layer can be set at the beginning of the test by the digital counter. User defined blow number and in-out distribution is also available.

A standard proctor / CBR switch, emergency stop and start push buttons are located beside the blow counter.

220 V, 50-60 Hz, 1 ph

Drop Height : 300-305-450-457 mm (adjustable)

Rammer Weight: 2.5-4.5 Kg.

Dimensions : 640x340x1506 mm.

Weight : 135 Kg.

Power : 370 W.

Soil Compaction Moulds and Rammers

Standards
- ASTM D556, D498, D1557;
- AASHTO T99, T180, BS 1377-4

Product Code
- JZ-011 Standard Proctor Mould ASTM
- JZ-012 Modified Proctor Mould ASTM
- JZ-013 Standard Proctor Rammer ASTM
- JZ-014 Modified Proctor Rammer ASTM

Moulds are used for determining the relationship between the moisture content and density of compacted soil. Made of plated steel, includes collar, mould body and base plate. Rammers are used to compact the soil sample in the Proctor Moulds. Made of plated steel. Guide sleeve with vent holes.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Int. dia(mm)</th>
<th>Body Height(mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JZ-011</td>
<td>Standard Proctor Mould ASTM</td>
<td>101.6</td>
<td>116.4</td>
<td>7</td>
</tr>
<tr>
<td>JZ-012</td>
<td>Modified Proctor Mould ASTM</td>
<td>152.4</td>
<td>116.4</td>
<td>9</td>
</tr>
<tr>
<td>JZ-013</td>
<td>Standard Proctor Rammer ASTM</td>
<td>50.8</td>
<td>305 ±1.6</td>
<td>7</td>
</tr>
<tr>
<td>JZ-014</td>
<td>Modified Proctor Rammer ASTM</td>
<td>50.8</td>
<td>457.2 ±1.6</td>
<td>9</td>
</tr>
</tbody>
</table>

Liquid Limit Device

Standards
- ASTM D4318, BS 1377-2, AASHTO T99

Product Code
- JZ-004 MANUAL TYPE
- JZ-005 MOTORIZED TYPE

JZ-004 MANUAL TYPE

Hand-operated liquid limit machine features mechanical revolution counter attached to the shaft to register the number of drops in the liquid limit cup. Complete with Grooving Tool made of brass.

Dimensions : 120x140x110 mm.

Weight : 3 Kg.

JZ-005 MOTORIZED TYPE

Motorized liquid limit machine gives uniform testing with greater degree of accuracy. Unit is comprised of manual liquid limit machine with geared motor to give proper operating speed and automatic counter. Machine is attached to metal plate with rubber feet. Includes: grooving tool and gauge block.

Power Supply : 220V 1PH 50Hz Dimensions: 140x170x110 mm

Weight : 4.5 Kg.

Cone Penetrometer

Standards
- BS 1337-2; NF P94-052-1

Product Code
- JZ-002 Manual Cone Penetrometer
- JZ-003 Automatic Cone Penetrometer
- JZ-003/1 Penetration Needles
- JZ-003/2 Aluminum Moisture Content

For determining the liquid limit of soils. This is specially useful to obtain reliable and accurate results of those soil which have low plasticity index. The percentage moisture contents determined when cone with half angle of 15-30 minutes under a total sliding weight of 148 gm penetrates 25mm gives the liquid limit.
Plastic Limit Test Set

**Standards**
ASTM D4318; AASHTO T90; BS 1377.2
UNI 10014; UNE 103-104; NF P94-051

**Product Code**
JZ-007  Plastic Limit Test Set  
JZ-007/1 Glass Plate 300 x 300 x 10 mm  
JZ-007/2 Rod Caliper / diameter 3 mm  
JZ-007/3 Mixing Porcelain Dish  
JZ-007/4 Flexible Spatula  
JZ-007/5 Aluminium Moisture Tins  

 Used to determine the lowest moisture content of a soil, by which a sample can be rolled into threads dia. 3 mm without breaking the same neither longitudinally or transversely.

Shrinkage Limit Set

**Standards**
ASTM D427; ASTM T92; UNI 10014;  
UNE 103-108; NF P94-060; BS 1377.2

**Product Code**
JZ-006  Shrinkage Limit Set  
JZ-006/1 Shrinkage dish.  
JZ-006/2 Glass measuring cylinder.  
JZ-006/3 Prong plate.  
JZ-006/4 Two moisture content tins.  
JZ-006/5 Spatula.

When the water content of a fine-grained soil is reduced below the plastic limit, shrinkage of the soil mass continues until the shrinkage limit is reached. This method of test covers the determination of the shrinkage limit, shrinkage ratio, volumetric shrinkage and linear shrinkage.

Proctor Penetrometre for Soil

**Standards**
ASTM D1558

**Product Code**
JZ-023 Proctor Penetrometre

The moisture-penetration finely ground grain is used to determine the interaction. Interchangeable needle contains water (cm² area): (6.45), (4.84), (3.22), (2.15), (1.29), (0.65), (0.32), (0.22) and (0.16). Units, which handle the pressure at the top of the scale, which includes a specially calibrated spring dynamometer. Apparatus, penetration strength 62 lbf (10N) is capable of measuring with accuracy and at least 130 lbf (600N) is available.

Pocket Penetrometers

**Standards**
ASTM D2573-94

**Product Code**
POCKET PENETROMETERS
POCKET PENETROMETERS (Dial)

Pocket penetrometer is used to classify the cohesive soils based on the approximate consistencies measured in the field and to determine the uniaxial compressive strength.  

**Measuring Range**: 6 to 4.5 kgf / sq. cm.  
**Dimensions**: 19x135 mm.

Pocket Type Vane Shear Apparatus

**Standards**
ASTM D427; ASTM T92; UNI 10014;  
UNE 103-108; NF P94-060; BS 1377.2

**Product Code**
JZ-008 Pocket Type Vane Shear Apparatus

Used to quickly find shear strength of binding materials of soil in laboratory or field conditions. Direct reading dial as Kgf/cm². Measuring range: 0-1 Kgf/cm² Complete with stainless steel vane. Weight: 300 gr.

Proving Ring Penetrometer

**Standards**
TS 1900-1; ASTM D2937; BS 1377/9

**Product Code**
JZ-009 Proving Ring Penetrometer

Used to determine the bearing capacity of subgrades, or to measure soil compaction. Light and easy to handle in the field. A rapid means of determining the penetration resistance of soil in shallow exploration surveys. Includes: 30°, 1 sq. in. (6.45 sq cm) cone; 250 lb. (1.1kN) capacity proving ring; brake type dial indicator, holds final reading until manually released; 3/4” (19mm) dia. shaft, graduated at 6”, (152mm) intervals; 3/4” (19mm) dia. extension rod, graduated at 6” (152mm) intervals; cast aluminum T-handle. Weight: 6.8 kg.

Sand Cone Density Set

**Standards**
AASHTO T191; ASTM D1556

**Product Code**
JZ-019 Sand Cone Density Set  
JZ-019/1 Sand Cone Set 6.  
JZ-019/2 Sand Cone Base Plate 6.  
JZ-019/3 Plastic Sand Jar 5 lt.  

For the on site determination of the degree of compaction. Complete set includes double cone, plastic sand jar 5lt capacity and metal tray.
**Sand Replacement Test Set**

**Standards**
BS 1377:9, BS 1924:2

**Product Code**
JZ-020 Sand Replacement Test Set 100 mm
JZ-021 Sand Replacement Test Set 150 mm
JZ-022 Sand Replacement Test Set 200 mm

For the on-site determination of the degree of compaction. Complete set consists of pouring cylinder. The sand pouring cylinder is made of cast aluminium and precisely machined; and tray are made of plated steel. The test set is available in three different sizes.

**Sand Density Pulley Apparatus**

**Product Code**
JZ-032 Sand Density Pulley Apparatus

**Linear Shrinkage Mould**

**Standards**
BS 1377:2

**Product Code**
Linear Shrinkage Mould

The test covers the determination of the shrinkage of soils and indicates the plastic properties of soils with low clay content. Dimensions (mm): 140x12.5. Weight (kg): 0.3.

**Speedy Moisture Tester Kit**

**Standards**
ASTM D4944, AASHTO T217, BS 6576

**Product Code**
JT-MCR Speedy Moisture Tester Kit

Field conditions dust, pulp mixture and the soil, sand, clay, aggregate and other granular materials quickly and accurately detect moisture content. Inside the sample, as a result of reaction with calcium carbide acetylene gas occurs. The resulting pressure caused by gas, dial indicator is determined as the percent moisture content. Within a few minutes into the issue determines the moisture content of the sample. Precision Scale, measuring spoons and cups, calibration kit, 1 box of calcium carbide reagent, cleaning brush, wooden enclosure with a complete set as.

- 20 cup capacity
- Humidity Range: 0-20%
- Net Weight: 8 Kg

**NUCLEAR DENSITY GOUGE**

**Standards**
ASTM D4938, D2950, C1040, AASHTO T310

**Product Code**
JND 01 - NUCLEAR DENSITY GOUGE

The gauge features a menu-driven control panel with easy-to-use, built-in test routines and auto features, making testing and quick and accurate operation. It also features our innovative trigger release handle that eliminates pinch fingers while providing smooth operation. Available in 8” (200mm) and 12” (300mm) lengths with either 1” (25mm) or 2” (50mm) increments, the EZ gauge features a simple gauge solution to density and moisture measurements. The gauge’s versatility allows it to measure density through direct transmission and backscatter modes, as well as including thin lift and trench modes, as well as moisture determinations. The gauge uses an advanced micro-processor-based technology to provide highly-accurate measurements of density and moisture that are automatically computed for direct readings of wet density, dry density, moisture content, percent of moisture, percent of compaction (Proctor or Marshall), void ratio and air voids. The EZ Gauge complies with all pertinent standards: ASTM D4938, D2950, C1040 and AASHTO T310. The gauge is calibrated by the Five-block calibration method.

- Menu driven.
- Built-in test routines.
- 4 lines x 20 alphanumeric character backlit liquid crystal display.
- Real time clock and self-calibration.
- Direct readings in engineering units.
- Inexpensive, easy-to-replace 1,600-hour batteries.
- Totally contained automatic indexing.
- Thin layer asphalt measurements & trench correction.
- Expansion module for storage of up to 320 measurements.
- Optional computer or printer interface via infrared RS232 port.
- 3 times measurement (15sec/1min/4min).
- Direct Transmission Mode (for Soil) / Backscatter Mode (for Asphalt).

Dimensions: 660x585x355

Power: 220 V 50 Hz.

Weight: 41kg.

**PERMEABILITY TEST SET**

**Standards**
BS 1377, ASTM 46-47

**Product Code**
JZ-024 Permeability Test Set

The Combination Permeameter is designed for laboratory determinations of permeability of either fine-grained or coarse-grained soils. Generally, soils containing 10 percent or more particles passing a no. 200 sieve are tested using the falling head assembly. More granular soils, containing 90 percent or more particles retained on the no. 200 sieve, are tested using the constant head assembly. Including: Permeability Test Set comprising 4 permeability cells, 4 glass tubes, reservoir tank, metre scale, rubber tubes.
**End-Over-End Shaker**

**Standards**
BS 1377:2; EN 1997-2

**Product Code**
JZ-028 End-Over-End Shaker

This method applies for soils containing up to 10% of particles retained on a 37.5 mm sieve. End-over-end shakes is used to rotate two gas jars at approx. 50 r.p.m.

1 litre capacity Gas Jar is made of glass and supplied complete with rubber bung and glass cover.

*230 V, 50-60 Hz, 1 ph.*
*Power: 180 W.*
*Weight: 21 Kg.*

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**Hydrometer Test Set**

**Standards**
ASTM D422, AASHTO T88

**Product Code**
JZ-031 Hydrometer Test Set

This equipment is used to determine the quantitative distribution of very fine particle size in soils such as clay and silt.

*Dimensions: 300 x 630 x 530 mm.*
*Weight: 19 kg.*

**Set includes:**
- 1 piece of Transparent Water Bath.
- 1 piece of 151 H Hydrometer.
- 1 piece of 152 H Hydrometer.
- 1 piece of 0–500C Glass Thermometer.
- 1 piece of 250 ml Beaker.
- 1 piece of Glass Beaker.
- 1 piece of High Power Stirrer.
- 6 pieces of 1000 ml Capacity Hydrometer Measures.

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**Mud Balance**

**Standards**
ASTM D 2419, AASHTO T 176

**Product Code**
JT-CMR/I American import
JT-CMR jeotest brand

Mud density provides a simple way to assess.
Metal-grade body.
Carring case.

*Weight: 5 kg.*

---

**Marsh Funnel Viscosity Kit**

**Standards**
ISO 2431

**Product Code**
JG-426 Marsh Funnel Viscosity Kit

Liquid materials are used in the viscosity determination.

*Mouth Opening: 4.75mm.*
*Sieve Mesh Size: 2 mm.*
*Weight: 1 kg.*

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**CBR Test Machine**

**Standards**
AASHTO T193, ASTM D1883, BS 1377:4
EN 12386-47, NF P94-078, UNI CNR 10009

**Product Code**
JZ-016 CBR Test Machine | LCD
JZ-016 CBR Test Machine | Load cell digital readout

*50 kN capacity, 1.27 mm/min loading frame.*
*50 kN capacity electronic load cell, 10 mm capacity 0.01 mm precision electronic deformation transducer, built with LCD monitor or Digital display.*
*comes with test software.*

*220 V 50 Hz.*
*Dimensions: 470x610x950 mm.*
*Weight: 88.5 Kg.*
*Power: 1100 W.*
Cbr Loading Machine Hand Operation 50 Kn Capacity

Standards
BS 1377:9, ASTM D4429

Product Code
JZ-016/AR Cbr Loading Machine Hand Operation 50 Kn Capacity

Load is applied through a mechanical jack and handwheel. Upper beam can be adjusted in height. The machine is supplied complete with:
- Load Ring 50 kN capacity.
- Penetration piston.
- Dial gauge with dial gauge holder.
Dimensions: 430 x 380 x 1180 mm.
Weight: 80 Kg

Consolidation Test Set

Standards
ASTM D2435; ASTM D3877; ASTM D4546
BS 1377:5; AASHTO T216

Product Code
JZ-026 Consolidation Test Set

The one-dimensional consolidation test gives useful information about the consolidation of a sample which is restrained laterally. The test can be performed with the aim of determining either the relationship between imposed force and resultant strain or between strain and time of application of a constant force. The sample, of cylindrical shape, is contained within an in deformable ring and placed between two porous discs; a series of calibrated weights, applied to a lever system, transmit a load to the load plunger which slides freely within the ring, thus consolidating the sample. A measurement instrument indicates the axial strain of the sample.

Rigidly manufactured from aluminum alloy casting is to provide a high accuracy with any frame distortion under load. The load bridge group is supported in high accuracy self-aligning seat balls.

The beam provides three loading ratio: 9:1 10:1 11:1 and the beam assembly is fitted with an adjustable counterbalance weight.
Dimensions: 190 x 850 x 527mm.
Weight: 25 Kg.

Cbr Mould And Accessories

Standards
ASTM D1883, AASHTO T193

Product Code
JZ-016/1 CBR mould.
JZ-016/2 Deployment plate.
JZ-016/3 Deployment gauge 25 mm coarse and 0.01 mm accuracy.
JZ-016/4 Deployment tripod.
JZ-016/5 CBR space disc.
JZ-016/6 Perfored weight.
JZ-016/7 Slotted weight.
JZ-016/8 Filter paper.
JZ-016/9 Deployment tank.

Dimensions: ID 152.4 mm. height: 177.8 mm. Mould collar: 50.8 mm. height Base plate: perforated. Structure: Steel made. Weight: 9 kg.

Universal Extruder

Standards
ASTM D1587, ASTM D1883, ASTM D498
BS 1377:4, BS 1924:2, BS 598:107

Product Code
JZ-015 Universal Extruder

The extruder has been designed for laboratory and field use to extract samples from various moulds. The extruder head is for standard use with U4 sample tubes. (internal 4” ESP thread). It can also be used to remove 4” or 6” Compaction Moulds, CBR and Marshall Moulds with adapter set which should be ordered separately.
The extruder is 40kN capacity and easy to use.
Dimensions: 650x500x900 mm
Weight: 87 Kg.

Direct Digital Shear Apparatus

Standards
ASTM D3038; BS 1377, AASHTO T236; BS-1377-7

Product Code
JZ-028 Direct Digital Shear Apparatus

This test is used to determine the shear strength of a soil sample subjected to orthogonal stress with respect to the failure plane. The sample is enclosed within a robust metal box horizontally split into two halves and provided with a vertical plunger. The shearing stress is created by imposing a movement of the lower half of the shear box, whilst applying a static load to the load plunger. In the more refined machines, called “controlled displacement equipment”, the variables that may be measured during the test are as follows: vertical strain, horizontal strain, shearing stress whilst the vertical force and displacement speed are kept absolutely constant.

Digital direct shear box, floor mounted with carriage assembly and load hanger with 10:1 lever loading device.

Features
- Microprocessor controlled digital stepper motor.
- Control via the digital display with keyboard.
- Return datum facility.
- Fully digitally variable speed over the range of 0.00001 to 9.99999mm/minute.
- RS232 port
- Forward/reverse travel limit switches.
- Will accept either analogue or digital measuring devices.

Load Ring 3 kN capacity.
Shear box set 60 mm².
Shear box set 100 mm².
Extraction tool.
Dial Gauge 0.002 mm precision for vertical.
Dial Gauge 0.01 mm precision for horizontal.
Weight Set 50 kg.
Weight hanger.
Device Weight: 90 Kg.
Dinamik Penetrometre

Standards
DIN 4094, BS 1377.9

Product Code
JZ-001 Dynamic Penetrometer

Used to establish the thickness of different strata, when testing compaction works and to determine the relative density of fills and naturally deposited non-cohesive soils. In general if the ground is not too compact, penetration tests can be carried of about 8 to 12 metres.

Plate Loading Test Set

Standards
ASTM D 1194, BS 1377

Product Code
JZ-018 Plate Loading Test

This test is performed for the determination of the bearing capacity of a soil in-situ on road constructions, foundations, road subgrades, airport and highway pavements.

100 kN, 300 kN capacities are available

Including:
1 piece of fixing bar.
1 piece of 100 kN or 300 kN capacity lifting jack.
1 piece of hand pump
1 piece of pressure gauge (max. 280 bar).
3 pieces of 50 mm x 0.01 mm deformation dial gauges and holders.
4 pieces of 150, 253, 305, 455 mm diameter plates.
Dimensions : 460 x 1240 x 400 mm.
Weight : 95 kg

Swell Test Equipment

Standards
EN 13286-47, ASTM D1183, AASHTO T193, BS 1377-4, 1924-2

Product Code
JZ-016/2 Swell Plate.
JZ-016/3 Dial Gauge 20mm x 0.01 mm.
JZ-016/4 Tripod

Placed on top of the soil sample to enable monitoring of swelling.
The swell test consists of perforated plate with adjustable stem (swell plate), dial gauge tripod and dial gauge.

Triaxial Stress Measurement Test (uu-cu-cd Tests)

Standards
BS-1377, ASTM D-2850

Product Code
JZ-034 TRIAXIAL STRESS MEASUREMENT TEST (UU-CU-CD TESTS)

The frame capacity is 50 kN

Adjustable loading speed between 0.00001 - 9.99999 mm/min.
Distance between columns : 360 mm
Base diameter : 158 mm
Two Analog Input Channels.
Microprocessor controlled drive system with LCD and Membrane keyboard.

The keyboard comprises adjustment buttons such as:
start, increase, automatic, manual, down, up.
test automatically stops

Load Cell 600 kg.
Stein Sensor, 25mm / (0.01 mm).
Pressure Transducer, 25 bar / 0-10V
Oil and Water Constant Pressure System (1700 kPa).
Volume Change Unit.
Triaxial Cell (Ø50mm) with suitable output for CU-CD System.
Distribution Panel with manometer and suitable output for CU-CD System.
Water Tank 10 lt.
Sample preparation mold and rammer.
Membrane Placing Tool.
O Ring Placing Tool.
220V AC, 50 Hz
Device comes with software.

Relative Density

Standards
ASTM D 4253, 4254, EN 13286-5

Product Code
Relative Density

The equipment consists of:
vibrating table 765x765 mm, actuated by a vibrator of 3600 rpm. with adjustable amplitude.
Relative density mould sets 0.1 and 0.5 cu ft., cylindrical shape, complete with two guide sleeve with clamp assembly;
two surcharge base with handle, two surcharge weights.
Dial gauge with measuring device.
Power supply: 220-240 V 1 ph 50 Hz
Weight: 300 Kg approx.
Pinhole Tester

Standards
ASTM D4647

Product Code
JZ-1289

Utilized to evaluate the erosion on soil samples having high degree of sodium content, the Pinhole apparatus reproduces the water flowing in a cavity obtained from a soil specimen. The apparatus consists of a cylindrical container equipped at its ends of water inlet/outlet connectors, tube with graduated scale, base support with rod.

Weight: 4 kg approx.

Certain fine-grained soils with high sodium content are highly erodible by the water flowing through them. During the test the flow of water under a high hydraulic gradient through a cavity in the soil is reproduced. The test apparatus consists of a cylindrical metal container fit one end with water inlet and the other end with an outlet connection, of a standpipe tube with scale and a stand to support the pinhole apparatus.

Soil Sieve Set

Standards
EN 933-2; ISO 565
ISO 3310-1/2; ASTM E11

Product Code
JG-069 Soil Sieve Set

Hoop dia 200 mm
75-50-37.5-25-19-9.5-4.75-2-1-0.850-0.425-0.250-0.106-0.75 mm
with 13 piece analysis sieve, lid and receiver
Universal Sample Splitter

**Standards**
- EN 932/1, BS 1377, ASTM C702
- ASTM C136, D271-0421

**Product Code**
- JA-016 Universal Sample Splitter

Designed for the reduction of test samples which are too large in volume to be conveniently handled. It handles any material from sand sizes up to dia. 108 mm. Each chute bar is 12 mm wide so that openings of 12-24-36-48-72-84-96-108 mm are possible. Complete with two collecting pans. Clam shell hopper: 30 litres capacity.

High Capacity Sieve Shaker

**Standards**
- TS 1900, EN 932-5, ASTM C127, C136

**Product Code**
- JA-037 High Capacity Sieve Shaker

Designed for sieving considerable quantities of any material. The screen shaker accepts up to 30 litres (60 - 70 Kg) of sample. Sturdy made, the machine can hold six screen trays and dust pan. Supplied complete with dust pan, but “without” screen trays to be ordered separately. Provided of timer 0-60 minutes.

Power supply: 220-240 V 50 Hz 1ph 750 W.

Dimension: 585 x 790 x 850 mm

Weight: 180 Kg.

Riffle Box

**Standards**
- ASTM C72; EN 933-3

**Product Code**
- JA-015 Riffle Box

Used for dividing aggregates into representative sample increments for testing. Electrostatic painted and manufactured in the slot widths and number of slots as required in the standards. Riffle boxes are supplied complete with 2 containers with handles.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (l)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA-015/01</td>
<td>7</td>
<td>2.2</td>
</tr>
<tr>
<td>JA-015/02</td>
<td>3</td>
<td>4.2</td>
</tr>
<tr>
<td>JA-015/03</td>
<td>15</td>
<td>8</td>
</tr>
<tr>
<td>JA-015/04</td>
<td>19</td>
<td>9.5</td>
</tr>
<tr>
<td>JA-015/05</td>
<td>25</td>
<td>12.5</td>
</tr>
<tr>
<td>JA-015/06</td>
<td>30</td>
<td>19.9</td>
</tr>
<tr>
<td>JA-015/07</td>
<td>38</td>
<td>21.8</td>
</tr>
<tr>
<td>JA-015/08</td>
<td>45</td>
<td>24.8</td>
</tr>
<tr>
<td>JA-015/09</td>
<td>58</td>
<td>26.0</td>
</tr>
<tr>
<td>JA-015/10</td>
<td>64</td>
<td>32.1</td>
</tr>
<tr>
<td>JA-015/11</td>
<td>75</td>
<td>35.3</td>
</tr>
</tbody>
</table>

Length Gauge

**Standards**
- CNR No. 95, DIN 4226, EN 933-4, NLT 354

**Product Code**
- JA-035 Length Gauge

Aggregate particles are considered elongated when their length is more than 1.8 of their nominal size.

Flakiness Gauge

**Standards**
- BS 812-105.1

**Product Code**
- JA-034 Flakiness Gauge

Used to determine if aggregate particles are to be considered flaky, i.e. their thickness is less than 0.6 of their nominal size.

Shape Index Gauge

**Standards**
- CNR No. 95, DIN 4226, EN 933-4, NLT 354

**Product Code**
- JA-036 Shape Index Gauge

Used to determine the shape factor of aggregates.

Grid Sieves

**Standards**
- EN 933-1, NF P18-561, NLT 354, UNI 8520

**Product Code**
- JA-014 Grid Sieves

Used to determine the flakiness index of the aggregates. Consists of electrostatic painted frame and 5 mm diameter stainless steel bars.

<table>
<thead>
<tr>
<th>Model</th>
<th>Aperture (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA-014/01</td>
<td>12.5</td>
<td>300x220x80</td>
<td>3.3</td>
</tr>
<tr>
<td>JA-014/02</td>
<td>2.5</td>
<td>300x220x80</td>
<td>3.3</td>
</tr>
<tr>
<td>JA-014/03</td>
<td>3.5</td>
<td>300x220x80</td>
<td>3.8</td>
</tr>
<tr>
<td>JA-014/04</td>
<td>4</td>
<td>300x220x80</td>
<td>3.8</td>
</tr>
<tr>
<td>JA-014/05</td>
<td>5</td>
<td>300x220x80</td>
<td>3.7</td>
</tr>
<tr>
<td>JA-014/06</td>
<td>6</td>
<td>300x220x80</td>
<td>3.6</td>
</tr>
<tr>
<td>JA-014/07</td>
<td>8</td>
<td>300x220x80</td>
<td>3.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Aperture (mm)</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA-014/08</td>
<td>10</td>
<td>300x220x80</td>
<td>3.2</td>
</tr>
<tr>
<td>JA-014/09</td>
<td>12.5</td>
<td>300x220x80</td>
<td>3.2</td>
</tr>
<tr>
<td>JA-014/10</td>
<td>16</td>
<td>300x220x80</td>
<td>4</td>
</tr>
<tr>
<td>JA-014/11</td>
<td>20</td>
<td>300x220x80</td>
<td>3.2</td>
</tr>
<tr>
<td>JA-014/12</td>
<td>25</td>
<td>300x220x80</td>
<td>3.2</td>
</tr>
<tr>
<td>JA-014/13</td>
<td>31.5</td>
<td>300x220x80</td>
<td>2.9</td>
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<tr>
<td>JA-014/14</td>
<td>40</td>
<td>300x220x80</td>
<td>2.7</td>
</tr>
</tbody>
</table>
**AG Flakiness Sieves**

**Standards**
BS 812

**Product Code**
JA-016 Universal Sample Splitter

Used to determine particle size shape or geometrical characteristics of the aggregates. Each sieve made from heavy gauge steel sheets in dimensions specified in the standards and coated with electrostatic paint.

<table>
<thead>
<tr>
<th>Model</th>
<th>Slot Size</th>
<th>Dimensions(mm)</th>
<th>Weight(kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA-013</td>
<td>3</td>
<td>320x195x30</td>
<td>1.6</td>
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<tr>
<td>JA-013</td>
<td>7.2</td>
<td>320x195x30</td>
<td>1.7</td>
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<tr>
<td>JA-013</td>
<td>11.4</td>
<td>320x195x30</td>
<td>1.8</td>
</tr>
<tr>
<td>JA-013</td>
<td>15.7</td>
<td>320x195x30</td>
<td>2.0</td>
</tr>
<tr>
<td>JA-013</td>
<td>20.3</td>
<td>320x195x30</td>
<td>2.1</td>
</tr>
<tr>
<td>JA-013</td>
<td>25.9</td>
<td>320x195x30</td>
<td>2.6</td>
</tr>
<tr>
<td>JA-013</td>
<td>33.9</td>
<td>320x195x30</td>
<td>3.1</td>
</tr>
</tbody>
</table>

**Methylene Blue Test Set**

**Standards**
EN 933-9 ; NF P 94-068 ; UNE 83 180 ; UNI 8520–15

**Product Code**
JA-025 Methylene Blue Test Set.
JA-025/1 High Speed Stirrer.
JA-025/2 Kaolinite (500 gr)
JA-025/3 Methylene blue (100 gr)
JA-025/4 Filter Paper (pack of 100)
JA-025/5 Burette 50 ml.
JA-025/6 Plastic Beaker 1000 ml.
JA-025/7 Glass Rod.

Methylene Blue Test Set is used for determining clay content in the fines fraction of the aggregates.

**Los Angeles Abrasion Machine**

**Standards**
ASTM C131; ASTM C535; CNR No. 34; EN 1097-2
NF P18-573 ; UNE 83114 ; UNI 8520-19

**Product Code**
JA-029 Los Angeles Abrasion Machine
JA-029/1 Los Angeles Abrasion Machine with safety cabinet
JA-029/2 Set of 11 abrasive charges conforming to EN
JA-029/3 Set of 12 abrasive charges conforming to ASTM UNI CNR

Los Angeles Abrasion Machine is used for determination of aggregates resistance to fragmentation. The machine consists of an electronic control unit and a rolled steel drum having an inside diameter of 711 mm and internal length 508 mm. The drum is rotated at a speed of between 31 and 33 r.p.m. The internal shelf is provided with the machine is conforming to ASTM and EN standards. The machine is equipped with automatic counter, which allows stopping when the preset number of revolutions is completed.

There is a steel tray supplied with machine for easy discharge of specimen.

**Power** 220 V, 50–60 Hz, 1 ph

**Dimensions** 1000x900x1000 mm

**Weight** 400 Kg.
Micro Deval Testing Machine

Standards:
- CNR No. 109, EN 1097-1, NF P18-572
- NF P18-576, UNE 83115

Product Code:
JA-033 Micro Deval Testing Machine

This machine is used to determine the resistance to wear of 25-50mm size aggregates. The machine consists of a steel frame, four stainless steel cylinders, and 25kg of 10 mm diameter stainless steel spheres and automatic digital counter which allows machine to stop automatically at the preset number of revolutions.

Stainless steel Ø200*154 drums are rotating at speed of 100 (±5) r.p.m. Power: 220V, 50/60Hz, 1ph. Dimensions: 640x1200x350 Weight: 150 Kg.

Nordic Abrasion Machine

Standards:
- EN 1097-9

Product Code:
JA-027 Nordic Abrasion Machine

This machine has been developed for testing the resistance to abrasion/wear from studded tires. Test is being performed on natural stones and aggregates between 11.2 mm and 16 mm. Test consists of rotating aggregates in drum with steel abrasive balls and water. The machine consists of an electronic control unit and a rolled stainless steel drum having an inside diameter of 206.5mm, internal length 335mm and thickness of 6mm. The drum is rotated at a speed of 90±3 r.p.m. 3 wings are installed inside of the drum to allow balls and aggregates to be mixed properly. The abrasion loss rate of aggregates is calculated after specified number of revolutions stated in the related standard. Power : 220V, 50–60 Hz, 1 ph
Weight : 95 Kg.

Slake Durability Tester

Standards:
- ASTM D4644

Product Code:
JA-032/21 Slake Durability Tester

This equipment has been developed to assess the durability of rock to weakening and disintegration when subjected to the simulated effects of climatic slaking. The rock samples are dried and then submitted to wear stress inside a drum which is rotated into water. The test is performed different times and the wear is given by the loss in weight of the sample. The system incorporates a motor drive unit mounted on a baseplate which revolves two (or up to four) stainless steel drums manufactured from 2 mm mesh, 140 mm dia. x 100 mm long. The tanks are filled with water to a level 20 mm below the drum axis. A digital timer automatically stops the motor after the preset time. The equipment is supplied complete with two drums with tanks, and it can accept two additional drums. Power supply: 230V 1ph 50Hz 250W Dimensions : 350x740x300 mm approx. Weight : 30 kg approx

Aggregate Impact Value

Standards:
- BS 812:112

Product Code:
JA-032 Aggregate Impact Value

This equipment is used to determine the impact value of aggregates and select them for a given application. The machine has a trip-action hammer release, blow counter device and a built-in operator safety device. Manufactured in heavy duty form with hardened steel surfaces for minimum wear. The complete assembly is cadmium plated for corrosion protection. Electrostatic dyed to against corrosion. Consist of counter, mould and tamper rod. Dimensions: 304 x 470 x 830 mm Weight : 52 Kg

Accelerated Polishing Machine

Standards:
- BS 812:112

Product Code:
JA-047 Abrasion Machine

The test gives a measure of the resistance of aggregates to surface wear by abrasion. Inadequate abrasion of road-surfacing aggregates means an early loss of the texture depth required to maintain highspeed skidding resistance. The machine consists of a heavy duty mainframe on adjustable antivibration pads, steel lap wheel 610 mm diameter, precision machined steel shaft and sealed bearings, resilient mounted electric motor, gear box, scraper blades for sand removal, revolution counter. Supplied complete with two specimen moulds, two flat plates, two trays. Power supply: 230 V 1ph 50 Hz Weight : 200 Kg.

Abrasive Slurry Machine
Alkalı - Silica Reaction Test Instrument

Standards
CANADA CSA-A23.2-25A, ASTM C227, C499, C1260

Product Code
JA-1856 Alkalı - Silica Reaction Test Instrument

Temperature is saved continuously and displayed as a graphic.

ASR Sample Pot made out of 2 mm thick stainless steel and internal size is 280 x 130 x 400 (length — with — height) cm.

Optional ASR steam emerging system at 40°C or lower air/water temperatures can produce almost up to a %100 moisture. High pressure pump and stainless steel spray nozzle is provided with the instrument (1.2 lt./h capacity).

Alkalı — Silica Reaction emerges through alkali in the cement, active silica and moisture in the aggregate. Active silica, alkali and moisture reacts together and than they emerge into a jell form which is a compound of alkali and silica. These compound swell in the concrete and starts cracking the concrete. Alkalı — silica reaction is a long continuous process and there is no remedy when once the cracks in cement starts. The remedies must be undertaken at the design stage of the concrete.

ASR Test Cabin contains the samples in an environment of %100 relative moisture between 20° C - 70° C with the accuracy of 0.5K.

Specifications
Application
Holding the ASR sample pots at 60oC and approx. %100 relative humidity According to RILEM/TC ARP/01/20 ve ASTM C 1293 standards.

Size
1500 x 1100 x 950 mm (length – with – height)

Water level
190 mm

Shelf for test pot
2 pcs

Internal cabin
Stainless steel

Lid
Torque compensation hinge 750 x 120

Sensor
RTD PT100 1/10 DIN B

Heating
2 x 6 kW 3*230 V (or 400 V) excessive temperature protection

Controller - heater
2 constant level relay 3 phase

Controller
Wall mountable cabin

User interface
Color, tactile screen and online graphic

Interface
Ethernet TCP/IP control and data collection

Weight
500 kg

Electrical connection
3 * 32 A 230 / 400 V, CEE socket

Freezing and Thawing Climatic Chamber

Standards
TS 3449

Product Code
JG-063 Freezing and Thawing Climatic Chamber

Used in determining resistance to freezing and thawing.

Provides freezing / thawing in air and also freezing in air / thawing in water.

The chamber equipped with programmes for 9 programs in 9 steps for each program.

Time can be arranged to 360 or 360 minutes for each step of program.

Temperature range for cabinet is -25°C to +60°C.

The control unit is electronic and equipped with digital display with 0,1°C temperature accuracy.

The temperature distribution accuracy in the cabinet is not higher than 2°C.

Cabinet provides heating from -25°C to +25°C in 60 minutes.

230 V, 50 Hz, 1 ph.

Abrasion Testing Machine

Standards
EN 1341, EN 1342, EN 1343

Product Code
JA-028 Abrasion Testing Machine

JA-028/1 Abrasive Sand

Abrasion Testing Machine is designed for determining the resistance to abrasion / wear of natural stones and concrete products. The abrasion wheel is 70 mm thick and rotates with speed of between 75-100 r.p.m. the machine is equipped with digital counter which stops machine at the preset number of revolutions. Supplied complete with abrasion sand.

220 V, 50-60 Hz, 1 ph

Weight: 85 kg

Bohme Abrasion Machine

Standards
TS 2824; EN 1338; EN 1339; DIN 52108

Product Code
JA-0281 Bohme Abrasion Machine

This apparatus measures the volume loss in a specimen under abrasion test. It can make the abrasion test with the specimen which is written below:

paving stones – concrete slabs- rock slabs

Cast iron horizontal disc with a speed of 30 rpm and a diameter of 750mm furnished of a 200mm test track to position a specimen.

Separate control panel with digital revolutions counter with automatic stop after preset revolutions.

Power Supply: 220 V 50 Hz

Weight: 250 kg

Skid Resistance and Friction Tester

Standards
ASTM E103; BS 812:144; CNR No. 105 ; CNR No. 140
EN 1097-8 ; NF P18-575 ; NF P18-578 ; NLT 174

Product Code
JA-046 Skid Resistance and Friction Tester

Used for the measurement of surface friction properties, the apparatus is suitable for both site and laboratory applications and for Polished Stone Value tests using curved specimens from accelerated polishing tests. Slider lifting system integrated in the pendulum foot, which guarantees reliable adjustment operations.

Skid Tester provides following features:

- Easy and reliable height adjusting system
- New low friction release mechanism of the pendulum arm for better accuracy.

Supplied complete with additional scale for tests on Polished Stone Value specimens and 6 rubber sliders for site use, complete with conformity certificate.

Dimensions: 790x760x320 mm

Weight: 34 Kg.
**Sand Absorption Cone and Tamper**

**Standards:**
BS 812; ASTM C128; AASHTO T84

**Product Code:**
JA-026 Sand Absorption Cone and Tamper

Used to determine the specific gravity and water absorption of fine aggregates. Chrome-plated brass cone (dia. 40 and 90 mm); 25 mm dia. tamping rod. Weight : 500 gr.

**Aggregate Crushing Value**

**Standards:**
BS 812:112

**Product Code:**
JA-030/75 Aggregate Crushing Value
JA-031/150 Aggregate Crushing Value

The aggregate crushing value provides a relative measure of the resistance of an aggregate to crushing under a gradually applied compressive load. Consist of piston, piston cover, base plate, tamping rod, measure. Produced two sizes: 150 mm and 75 mm diameter

**Moisture Meter**

**Standards:**
ASTM D4944; BS 6576; AASHTO T217

**Product Code:**
JT-MCR Moisture Meter

This electronic tester measures and visualizes directly on the display the moisture percentage and temperature of sand and fine aggregates up to max. dia. of 10 mm by simply inserting the crucible tip. Suitable for both site and laboratory tests.

- **Moisture Range:** 0-20%
- **Accuracy:** ± 0.5%
- **Measuring Depth:** 1000 mm
- **Weight:** 2 Kg

**Jaw Crusher**

**Standards:**
UNE 83120

**Product Code:**
JA-053 Jaw Crusher

This Jaw Crusher is used for the rapid, gentle crushing and pre-crushing of medium-hard, hard, brittle and tough materials. Its variety of materials offered including heavy-metal free steel, its efficiency and safety

**Application Examples:**
Alloys, basalt, cement clinker, ceramics, chamotte, coal, coke, construction materials, feldspar, glass granite, minerals, ores, oxide ceramics, quartz, rocks, silicon, slag.

**Product Advantages:**
- Excellent crushing performance.
- Wide range of materials for contamination free grinding.
- Wear compensation with zero-point adjustment.
- Gap width setting.
- Overload protection.
- No-rebound feed hopper with quick-release clamp.
- Brake motor with safety switch.
- Easy-to-clean crushing chamber.
- Continuous grinding.
- Connector for dust extraction

**Features**

<table>
<thead>
<tr>
<th>Material feed size*</th>
<th>&lt; 50 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final fineness*</td>
<td>&lt; 4 mm</td>
</tr>
<tr>
<td>Material of grinding tools</td>
<td>manganese steel, stainless steel, tungsten carbide, steel 1.1750 (for heavy- metal free grinding)</td>
</tr>
<tr>
<td>Jaw width</td>
<td>60 x 60 mm</td>
</tr>
<tr>
<td>Gap width setting</td>
<td>0 - 20 mm</td>
</tr>
<tr>
<td>Gap width display</td>
<td>scale</td>
</tr>
<tr>
<td>Zero point adjustment</td>
<td>yes</td>
</tr>
<tr>
<td>Hinged hopper</td>
<td>yes</td>
</tr>
<tr>
<td>Dust extraction unit</td>
<td>yes</td>
</tr>
<tr>
<td>Collector capacity</td>
<td>2 l</td>
</tr>
<tr>
<td>Drive</td>
<td>1-phase motor / 3-phase motor</td>
</tr>
<tr>
<td>Drive power</td>
<td>0.75 KW</td>
</tr>
<tr>
<td>Electrical supply data</td>
<td>different voltages</td>
</tr>
<tr>
<td>Power connection</td>
<td>1-phase / 3-phase</td>
</tr>
<tr>
<td>W x H x D closed</td>
<td>320 x 960 x 800 mm</td>
</tr>
<tr>
<td>Net weight</td>
<td>~ 132 kg</td>
</tr>
<tr>
<td>Remark weight (without hopper etc.)</td>
<td>0.75 KW</td>
</tr>
</tbody>
</table>

**Colour Standard**

**Standards:**
ASTM E40; AASHTO T21

**Product Code:**
JA-039 Colour Standard

Colour standard with 5 organic glass scales mounted in plastic holder.
L Type Rock Test Hammer

- Standards
  - EN 12504, 2; ASTM C805; UNI 9189
  - DIN 1048; BS 1881:202 - NF P18-417

- Product Code
  - JB-062 L Type Rock Test Hammer

  - L type.
  - Nominal power: 0.735J
  - Strike length of flip hammer: 75 ± 0.3mm.
  - Friction of pointer slider: 0.5 ± 0.1N
  - Work length of flip tensioned spring: 61.5 ± 0.3mm.
  - Fixed value of steel anvil: 74 ± 2.
  - Location of flip hammer’s hook release: “100” at the scale mark
  - Sphere semi-diameter at the end of the flip rod: 25 ± 1mm.
  - Aluminium frame.
  - Carrying Case.
  - Carborundum stone for abrasive.
  - Spare Test Spring.
  - Phillips screwdriver.
  - Flat screwdriver.
  - Dimensions: 330 x 170 x 85 mm.
  - Net Weight: 1.4 kg.

Digital Point Load Tester

- Standards
  - ASTM C40; AASHTO T21

- Used to determine the strength values of a rock specimen both in the field and in the laboratory.
- It consists of a load frame for applying loads up to 55 KN, on which a manual hydraulic jack is mounted.
- The instrument accepts core specimens up to 4”(101,6 mm) diameter.
- The applied load is measured by load cell with a digital display unit.
- Weight: 25 Kg

Aggregate Sieve Set

- Standards
  - EN 933-2; ISO 565
  - ISO 3310-1/2; ASTM E11

- Product Code
  - JG-069/01 Aggregate Sieve Set

  - Hoop dia 200 mm
  - 75-50-37.5-25-19-9.5-4,75-2-0,850-0,425-0,250-0,106-0,75 mm
  - with 13 piece analysis sieve, lid and receiver
**Fully Automatic Steel Tensile Testing Machine**

**Standards**
ASTM 370, EN 10002-1

**Product Code**
- JÜ-001 Steel Tensile Testing Machine 600 kn.
- JÜ-002 Steel Tensile Testing Machine 1000 kn.

Fully automatic, 600 kn or 1000 Kn capacity Steel Tensile Machine. Fully automatic, PC controlled hydraulic grip steel tensile machine operates with the newest and innovative PC controlled technology. This new technology provides the user a perfect hydraulic control and saves run time. Machine can be controlled either by a PC with standard keyboard and a mouse or by internal electronic module. Vertical position set of the bottom hydraulic grip and the movement of the grips are being controlled manually by a single push button. User can easily operate this machine. Extension and displacement measures are being made through 10 mikro LVDT which is placed between the middle and the upper table.

**Hydraulic Grips**
- Hydraulic gripping system controlled by remote control.
- Grips can turn 360° and hold around reinforced steel bars.
- Two sets of grippers for test 8 mm - 32 mm dia round re-bars.
- Distance between grips adjustable from 60 to 400 mm.

Option: Flat surface grips can also be used upon the request of the client as an option.

**Hydraulic console and control unit**
Hydraulic console and control unit contains:
- Hydraulic pump.
- Relief pressure valve and Proportional valve.
- Hydraulic valves.
- Oil filters.
- Oil tank.

Entire control console is given with tensile device which is part of the machine. The upper side is separated for electronic modules and the bottom side is for hydraulic units. The design of the control unit has a user friendly shape so the user can use the complete machine while sitting. User can use the machine just by using the control panel. Machine can be used as manual or automatic without a computer and you can see the graphical values on the screen of the control unit.

**Measuring Depth:** 180 mm.
**Reinforcement Diameter:** 6 mm - 50 mm.
**Dimensions:** 210 mm x 153 mm x 90 mm h.
**Weight:** 1350 g.

**Safety**
- User safety is our prime and ultimate principle for all our products.
- All tensile machines are equipped with standard Pressure Relief Valve. Once the oil pressure reaches a maximum value than the machine stops automatically.
- Machine stops automatically by the limit switch located on the cylinder when it reaches the maximum limit.
- Hydraulic control unit contains Pressure Relief Valve and it is calibrated to %10 less than the maximum capacity of the machine.
Cold Bend Testing Machine

Standards
ASTM A615-89

Product Code
JG-013 Cold bend testing machine

Used for bending and straightening steel reinforcing bars.

- Hydraulic motor.
- 20 Ton capacity.
- Manometer display.
- Adjustable speed.
- Headers can be changed.
- Iron bending test up to 30 mm diameter.
- 220 V 50 Hz.

Welded WireMesh For Reinforcement Concrete Pulling Machine Instrument

Standards
ASTM A615-89

Product Code
JG-010 Welded WireMesh For Reinforcement Concrete Pulling

Digital display/ computer, graphic program Color printer
It can use either in manual or automatic mode.
Suitable jaws set for flat steel and round material test
Mechanic jaws and plates are fixed each other.

- Fully automatic computerized machine.
- Load cell: is suitable for ASTM E4 class 1 at %1 sensitivity
- Potentiometer ruler with 10 micron sensitivity.
- 6 digit 20 mm Led Display Load cell indicator.

Digital Servo Control Unit:
- Test parameters can be entered (Loading rate, Load, elongation limits etc.)
- Information about test can be entered.
- Experiment results are given with Metric and SI unit systems.
- Large permanent memory for saving test results.
- Automatic or manual referencing system can be selected.

- Digital provide calculation:
- Load - expanding graph.
- Max load, max extension, breaking load, elongation at break
- Breaking out extending, Young modulus, Yield point calculation.
- Gives experiment report contain all test results and graphs.

Hydraulic Unit:
- 60 Ton capacity
- Imported Solenoid valve
- Imported hydraulic pump
- Piston
- Mechanic interval parts, Hydraulic hose
- Oil tank
- 380V 50 Hz
Anchorage Pull Test Agrega

**Product Code:** JT1154 ANCHORAGE PULL TEST

**Piston**
- Capacity: 30 ton
- Internal diameter: 30 mm
- External diameter: 140 mm
- Stroke: 100 mm
- Weight: 16.6 kg
- One-year warranty against Manufacturing Defects.

**Hand Pump**
- Working pressure: 700 bar
- Single acting
- Weight: 9.5 kg
- CE quality certified

**Hydraulic Hose**
- 2 meter hydraulic hose
- Working pressure: 445 bar
- Burst pressure: 1800 bar
- Connection Thread: 3/8" NPT

**Special Jaw Set**

**Product Code:** JT1153/CT Special Jaw Set
- Special Jaw Set (8-10-12-14-16-18-20-22-24-26-28-30-32)
Compression And Flexural Testing Machine

Standards
EN 196-1; ASTM C109; BS 3892; DIN 1164

Product Code
JC-027 COMPRESSION AND FLEXURAL TESTING MACHINE

It performs a fully automatic test procedure, including speed rate and software for Certificate printing.
Upper and lower compression platens dia. 165 mm.
The vertical daylight between platens is 189 mm
Dual loading chamber: 0 - 250 kN (for compression tests) 0 - 15 kN (for flexure tests)
The low capacity piston (15kN) per s very accurate tests on specimens having low strength (both in compression and in flexure).
Max piston's stroke: 35 mm approx. Safety guards to CE Directive, polycarbonate made with hinges.
Two columns rigid frame fitted on a steel base.
Calibration and Accuracy: Grade 1.0 The machine is supplied complete with lower compression platen and coupling piece to easily fix the compression / flexural devices.

Power supply: 220-240V 1ph 50z 750 W.
Dimensions: 395 x 385x 1450 mm
Weight: 310 kg.

Compression and Flexural Accessories

Standards
EN 196-1; BS 3892-1; ASTM C109; EN ISO 697

Product Code
JC-028 Compression Jig
JC-030 Flexural Jig

It is used to test pressure strength of 40 x 40 x 40 mm, 50 x 50 x 50 mm cubic samples and 3 point bending strength of 40 x 40 x 160 mm beam samples.

Cement Moulds

Standards
ASTM C109; BS 4550; EN 196-1

Product Code
JC-004 40x40x160mm Three Gang Mould
JC-005 70x70x70.7 mm Cube Mould
JC-006 50x50x50 mm Three Gang Cube Mould

All the moulds have been manufactured from steel and all internal surfaces are machined. All dimensions and specifications comply with the related standards.

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Vicat Test Set

Standards
AASHTO T129 ; AASHTO T131 ; ASTM C187 ; EN 196-3

Product Code
JC-012/1 Vicat Mould.
JC-012/2 Initial Needle.
JC-012/3 Final Needle.
JC-012/4 Consistency Plunger.
JC-012/5 Glass Plate.

Used for determination of setting time and consistency of cement by Vicat Method.
The test set comprises Vicat Frame, Vicat Mould, Initial and Final needles, glass plate and consistency plunger.
Dimensions: 150x190x318 mm.
Weight: 3 Kg.

Jolting Table

Standards
EN 196-1; ISO 679

Product Code
JC-007 Jolting Table
JC-007/1 40x40x160 mm Feed Hopper

Jolting table is used for mould compacting of 40x40x160 mm cement specimens and consists of mould table seated on a rotating cam driven at 60 revolutions per minute. The table drop is 15.0 mm.
The machine is equipped with counter which provides automatic shut off at end of preset drop numbers.
Weight and dimensions of the jolting table fully comply with the requirements of EN 196-1 standard. Rapid mould lock and release system allows easy and quick operation.
220 V, 50-60 Hz, 1 ph
Drop Height 15 mm
r.p.m. 60
Dimensions: 255x285x1000 mm.
Power: 250 W.
Weight: 55 Kg.

Vibrating Table For 70,7 Mm

Standards
BS 4550

Product Code
JC-020 VIBRATING TABLE FOR 70,7 mm

The mould is mounted on a vibration platform with eccentric mechanism. The machine is supplied complete with control panel with timer, but “without cube moulds” to be ordered separately.
Power supply: 220-240V 1ph 50 Hz 250 W.
Weight: 100 Kg.
Automatic Tropicalized Vicat

Standards
EN 196-3:2005; EN 13279-2 (GYPSUM)
EN 480-2 / ASTM C187, ASTM C191

Product Code
JÇ-012 AUTOMATIC TROPICALIZED VICAT

The Vicatronic apparatus, that is designed and manufactured using the most recent and sophisticated technology, is used for the initial and final setting time determination of cements or mortar pastes. Movements along X Y Z axes. Up to 30 different test types may be programmed and over 1000 tests may be memorized. PC Port. Initial and final setting time (in 0.1 mm) Automatic cleaning of the needle. Automatic stop and storage of measurements up to 50 tests.

Plunger for initial consistency Thermostatic baths (optional) GLCD display for data input and diagram/test report. Printer for final test report and diagram. RS 232 serial port for PC connection Moulds and further needles have to be ordered separately, according to the various standards.

Power supply: 220 V, 50 Hz, single phase.

Weight: 40 kg.

Cement Flow Table EN Model

Standards
EN 1015-3, EN 459-2

Product Code
JÇ-015 Cement Flow Table
JÇ-016 Motorized Cement Flow Table
JÇ-016/1 Flow Mould
JÇ-016/2 Tamping Rod

Used for determining consistency of mortar, lime and cement specimens. Manual and motorized two models are available.

The table is 300mm dia., 10mm drop height. The cone made of brass has dimensions of 100mm base dia. x 70mm top dia. x 60mm high. The motor operated model is driven by a motor speed reducer through a mechanical coupling at the rate of 1 rev. per second. The number of drops is pre-set on a counter and the machine stops automatically at the end of the cycle. Both models are supplied complete with brass flow mould and tamper. The table is manufactured from stainless steel.

220 V, 50-60 Hz, 1 ph

Model | JÇ - 015 Manual | JÇ - 016 Motorized |
------|----------------|-------------------|
Dimensions (mm) | 0255x290 | 450x1030x330 |
Power (w) | 12.7 | 50 |
Weight (kg) | 10 | 18 |

Automatic Blaine Air Permeability Apparatus

Standards
EN 196-6; ASTM C204; AASHTO T153

Product Code
JT-BL Automatic Blaine air permeability apparatus

An automatic, microprocessor-controlled analyzer for measurement of the specific surface (Blaine value) of powders. This device operates with 1 or 2 measuring cells. After entry of test-specific sample data into the controller, the test is completely automatically carried out and evaluated. The device has an interface for a generally commercially available printer.

Scope of equipment delivered: automatic air permeability tester, 1 bottle of fill oil, 500 ea. round filters (diam. 41 mm), 100 ea. dust filters (diam. 13 mm), 1 ea. Tamper

Dimensions: 200 x 160 x 400 mm.

Weight: 12 Kg.

Blaine Fineness Apparatus

Standards
EN 196-6

Product Code
JÇ-019 Blaine Fineness Apparatus
JÇ-019/1 Manometer liquid Bottle 250 mm
JÇ-019/2 U Manometer Tube
JÇ-019/3 Cell with perforated disc
JÇ-019/4 Filter Paper (pack of 100)

Used to determine the particle size of Portland cement, limes and similar powders expressed in terms of their specific surface. It consists of a stainless steel cell, perforated disc and plunger.

A U-tube glass manometer is fitted to the steel stand. The set is complete with rubber aspirator and filter paper.

Dimensions: 170x220x470 mm

Weight: 8 Kg.

Pulunger Penetrometre

Standards
EN 413-2, EN 459-2, EN 1015

Product Code
JÇ-034 Plunger penetration apparatus

Used to determine the consistency of fresh mortars, lime and masonry cement. This apparatus consists in a base, a vertical support, a graduated rod with 25 mm dia. plunger, a test cup dia. 80 mm x 70 mm deep and a 40 mm dia. tamper.

80 mm x 70 mm deep and a 40 mm dia. tamper.

Drop height 100 mm.

Dimensions: 260 x 250 x 450 mm.

Weight: 5 kg.
**Cement Shrinkage Test Set**

**Standards**
- ASTM C151; ASTM C490; BS 1881.5
- BS 6073; EN 12617-4; EN 1367-4

**Product Code**
- JÇ-014 Cement Shrinkage Test Set
- JÇ-014/1 Length Comparator
- JÇ-014/2 Digital Length Comparator (250 mm Gauge Length)
- JÇ-014/3 25x25x285 mm Two Gang Prism Mould
- JÇ-014/4 Steel Insert for 25x25x285 mm Two Gang Prism Mould
- JÇ-014/5 Reference Rod 160 mm EN 12617–4

Test set is used to determine the accelerated soundness (autoclave method) and length changes of 40x40x160 mm and other sizes of cement prisms. The set consists of length measuring frame, two or three gang steel mould according to the related standard, steel inserts for moulds and reference rod. The set is available in two models one with 0.002mm/10mm analogue dial gauge, the other one with 0.001mm/20 mm digital dial gauge.

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**Le Chatelier Test Set**

**Standards**
- EN 1367.1; ASTM C671; BS 812,124

**Product Code**
- JÇ-010 Le Chatelier Test Set

The soundness of cements and limes is determined using the expansion test with Le Chatelier moulds according to the relevant standard. The mould consists of a spring tensioned split cylinder 30 mm internal diameter x 30 mm high with two indicator stems which measure 150 mm from the points to the centre line of the cylinder and 0 ring. Standard weight and glass plate are supplied complete with the mould. Weight: 0.3 kg.

**Le Chatelier Water Bath**

**Standards**
- EN 196-3; EN ISO 9597

**Product Code**
- JÇ-011 Le Chatelier Water Bath

Time and expansion device outlet of the cement samples used in the determination. Bathroom inside the stainless steel, non-electrostatic powder paint, is a digital indicator. Rack with a capacity of patterns are available. Ambient temperature between 95 °C with the runs. 220 V, 50-60 Hz, 1 ph Weight: 20 kg.

**Flow Cone Apparatus**

**Standards**
- ASTM C; EN 445

**Product Code**
- JÇ-011/15 Flow Cone

Used for determining the flow properties of mortars, grouts, muds and many other type of fluid materials. The apparatus, as prescribed by ASTM C. Cone top dia. 178 mm. Funnel conical length 190 mm. Funnel upper collar length 75 mm. Nozzle dia. 12.7 mm. Comes complete with stand adjustable in height, nozzle and plastic graduated cup. Weight: 10 Kg.
**Lever Support**

**Standards**
EN 13294; TS EN 1015-9

**Product Code**
JÇ-035 Lever Support

LEVER SUPPORT (drill-holder type)
Complete with washer and penetration rod brass made, clamp and locking support
Used for the determination of stiffening time on products and systems for the protection and repair of concrete structures.
Dimensions: 380 x 300 x 500 mm.
Weight: 12 kg.

**Manuel Mortar Mixer**

**Product Code**
JÇ-002 Manuel Mortar Mixer
JÇ-002/1 Beater
JÇ-002/2 Mixing Bowl 5 liters

The mixer has been designed to mix mortars and cement pastes primarily to the requirements of standards. The mixing head rotates in the speed of 62 and 125 r.p.m. and the beater 140 and 285 r.p.m.
The user can choose speeds easily by using switch fitted to the machine. The mixer is supplied complete with 5lt capacity bowl and the beater.
220 V, 50-60 Hz
Dimensions: 300x555x610 mm
Weight: 54 Kg.
Power: 250 W.

**Automatic Programmable Mixer**

**Standards**
EN 196-1; EN 196-3; EN 413-2; EN 459-2

**Product Code**
JÇ-003 JÇ-003 Automatic Programmable Mixer
JÇ-003/1 Beater
JÇ-003/2 Mixing Bowl 5 liters Support

The mixer has been designed to mix mortars and cement pastes primarily to the requirements of standards. The mixing paddle has a planetary motion and is driven by a motor with a microprocessor based speed and program controller. The mixer can be operated either in an automatic or manual mode. When the mixer is used in the manual mode, the two mixing speeds can be changed by means of the rocker switch, without switching off the motor. The automatic mode of any of the preset mixing programs may be selected. The mixing head rotates with speed of 62 and 125 r.p.m. and the beater 140 and 285 r.p.m.
Automatic Sand dispenser is supplied with machine and thirty seconds after start of mixing sequence sand is automatically discharged into the mixing bowl.
The mixer is supplied complete with 5lt capacity bowl and the beater.
220 V, 50-60 Hz
Dimensions: 300x555x610 mm
Weight: 56 Kg.
Power: 250 W.

**Curing Cabinet**

**Standards**
EN 196-1

**Product Code**
JÇ-009 Curing Cabinet

Used for curing tests of cement specimens. The curing cabinet provides 20 ± 1°C temperature and 95% humidity for cement specimens. Internal chamber and racks are made of stainless steel. The temperature is maintained at 20 ± 1°C by a immersion heater and refrigerator unit which are supplied complete with cabinet. The cabinet is equipped with digital unit which controls and monitors the temperature. The humidity is maintained from 95% to saturation by water nebulisers and also monitored on digital unit.
220 V, 50-60 Hz, 1 ph
Internal Dimensions: 500x600x800 mm (wxlxh).
External Dimensions: 600x700x1500 mm (wxlxh).

**Climatic Chamber**

**Standards**
EN 1367-1; ASTM C671; BS 812,124

**Product Code**
JÇ-009 Climatic Chamber

Environmental Testing under your control. JEOTEST Test Cabins are developed to simulate real environmental conditions by controlling temperature, humidity and day & night lighting cycles. By means of their wide temperature and humidity control range various kinds of tests could be performed in different areas. Stability, artificial aging and storage test can be easily done as well.

To ensure maximum durability and reliability, adequate materials were chosen for the construction of the products. The chamber is made of Stainless Steel. The outer body is made of Epoxy coated Galvanic Steel to resist high humidity levels. The lights are located inside the door and protected with a glass window. There is also an internal glass door which allows controlling the samples without disturbing the temperature and humidity conditions inside the chambers. The insulation becomes more important for the efficiency of the product when cold and hot temperatures are concerned. It is made of high density injected polyurethane. The humidity is produced by the humidity generator and measured by a humidity sensor. The recovery time is fast and humidity measurement is sensitive. The heating function is controlled by PID while cooling and humidity are controlled by proportional system. User friendly control panel includes 128x64 pixel display.

Powerful air circulation system maintains temperature and humidity uniform. The state-of-art control system is based on programmable microprocessor technology.
- Program name: There are ten programs memories,
- Temperature: - 20°C - +60°C
- Humidity Range: %20-%95 Rh
- Time: 0-999 hours — 59 minutes + hold position
- No of Step: 1-9

www.jeotest.com.tr
**Micron Air-Jet Sieve Shaker**

**Standards**
EN 933-10

**Product Code**
JC-032 Micron Air-Jet Sieve Shaker

The Air Jet Machine is suitable for sieving powder and dry grain products by obtaining sieving results between 5 to 4000 microns, by using appropriate test sieves 200 mm dia. Its working foundation is based on the use of air that tug thin particles to make them go through the sieve. Allowing to perform many tests (same tens) before being replaced.

The digital electronic microprocessor panel can adjust:
- The sieving time from 0 to 99 minutes
- The vacuum range from 0 to 99 bar

**Power supply:** 230V 1ph 50Hz

**Dimensions:** 450 x 600 x 400 mm

**Weight:** 25 kg

**ALPINE Air Jet Sieves**

**Standards**
ASTM E 11; BS 410

**Product Code**
JC-032/1 ALPINE Air Jet Sieves

Ideal for screening of cement, kaolin, drugs, spices, flour, powder, etc.
Support air jet test sieves of Ø200mm, available from 32 \(\mu\)m and 200 \(\mu\)m.

**Fineness of fly ash by wet sieving**

**Standards**
EN 451-2; ASTM C430

**Product Code**
JC-032/1 Fineness of fly ash wet

The set, brass made. Consisting of spray nozzle 17.5 mm ID with 17 holes as specified in EN 451-2, a vacuum pressure gauge, 160 kPa graduated at 5 kPa divisions and fittings to attach the apparatus to a standard domestic water supply. Special sieve, ID 50 mm, Stainless steel mesh 0.045 mm. Weight: 3 Kg.

**Filter Press For Muds**

**Standards**
American Petroleum Institute (API)

**Product Code**
Filter Press For Muds

This filter press is the most effective means for determining the filtration properties of drilling muds and cement slurries. The filter press consists of a mud reservoir mounted in a frame, a pressure source, a filtering medium, and a graduated cylinder for receiving the measuring filtrate, pack of 100 filter paper.

**Dimensions:** 210x240x500 mm. **Weight:** 12 kg.

**Rheometer for Drilling Fluid**

**Product Code**
Rheometer for Drilling Fluid

Rheometer is a direct-indicating, manually operated, rotational viscometer. The instrument is powered by a hand crank, which drives the spindle through a precision gear train. The shift cam selects between fixed speeds of 300 and 600 RPM. A Knob on the hub of the shift cam determines gel strength. During operation, fluid is contained in the annular space between two concentric cylinders. The outer cylinder, or rotor sleeve, is driven by the hand crank. The inner cylinder, or bob, is restrained by a torsion spring. A dial attached to the torsion spring indicates bob displacement due to friction.

The instrument constants have been adjusted so that plastic viscosity and yield point can be calculated using the 300 and 600 RPM readings.

\[\text{Plastic Viscosity (cP)} = 600 \text{ RPM reading} - 300 \text{ RPM reading}\]

\[\text{Yield Point (lb/100 ft}^2) = 300 \text{ RPM reading} - 600 \text{ RPM reading / 2}\]

**Dimensions:** 240x140x400 mm. **Weight:** 11 kg.
**Bulk Density**

**Standards:**
EN 459-2

**Product Code:**
JG-403 Bulk density

Consists of a 1 litre capacity cylindrical container, filling ring with opening and hopper with spring-loaded trap.

Dimensions: 150 x 150 x 400 mm.

Weight: 5.5 kg.

---

**Air Content Meter**

**Standards:**
EN 196-1, 196-2, 196-3; BS 3892; ISO 679

**Product Code:**
JG-033 Air content meter (1 lt)

Designed to determine the air content in cement mortar, cement paste and lime mortar.

Made from cast aluminium, the test pot one litre capacity and the upper part are air-tight sealed by means of two quick action spring clamps. The whole is connected to a dial gauge directly indicating the air entrainment in percentage, with range 0 - 50%. A built-in operated air pump is also included.

The push-buttons TEST and CORRECTION are arranged to perform the test in a simple and quick system.

Dimensions: dia. 200 by 320 mm.

Weight: 4 kg.
### Adhesion Test Device

**Product Code**
JT-YLT/001 Adhesion Test Device

The test device on bituminous membranes abrasive insulation material used to make the bond test. Load of 25 Newtons applied on the test specimen 6.6 specified in the standard-quality polyamide with the 4000 mm square area through brush 55 is applied again. The test specimen before and after the experiments weighted with a weight of 0.01 grams weighing precision is the result. Three are counter indicator, safety sensor for door and on-off button on the device.

- **Power**: 220 volt 1 hp 50 hz.
- **Dimensions**: 300x290x75.5 0mm.
- **Weight**: 45 kg.

### Water Permeability Tester

**Product Code**
JT-YLT/005 Water Permeability Tester

Made of aluminum metal the cell Dia.:150mm.

- Manual pressure pump.
- Glass plates.
- Pressure pressure gauge.

- **Dimensions**: 500 x 365 x 345 mm.
- **Weight**: 20 kg.

### Vacuum Machine

**Product Code**
JT-YLT/005 Vacuum Machine

Vacuum chamber made of brass material the cell Dia:120 mm.

- There is 100 mm dia plexiglass material on the cell. There is 20 mm dia plexiglass tube under the cell.
- Pressure gauge.
- The flowrate of vacuum pump 3m³/time.
- The vacuum pumping capacity 150ml/bar
- Engine power 0.10kw
- Digital time relay 99.97hour 99.9min 59.9seconds

- **Dimensions**: 500x400x1250 mm.
- **Weight (app.)**: 50 kg.

### Static Load Application Tester

**Product Code**
JT-YLT/002 Static Load Application Tester

The machine used for implement to vertical load on the sample. The distance between the Weight on the sample and loading ball : 40mm Loading bar and puncturing ball be calibrated to 2 kg

- Diameter of puncturing ball : 10 mm hardness of puncturing ball : 50 HRC
- Polystyrene material (dimensions: 50x50x50mm) implement to method A
- Concrete plate (dimensions: 300x300x30mm) implement to method B

- **Dimensions**: 700x700x350 mm
- **Weight**: 50 kg (app.)

### Falling Weight Impact Tester

**Product Code**
JT-YLT/003 Falling Weight Impact Tester

25x25 mm size wood + profile body guiding profile.

- Scaling is scaled with polystyrene and aluminum.
- 10 mm diameter and 40 mm long as weight falling piston.
- 50 HRC hardness of 12.7 mm diameter drill bit
- Weight of drop: 200 mm - 2000 mm controllable.
- 200 mm - 500 mm, 50 mm accuracy.
- 500 mm to 1000 mm to 1000 mm precision.
- Concrete plate: 50x400x400 mm.

- **Dimensions**: 450x600x2550 mm.
- **Weight (app.)**: 70 kg.

### Tensile Testing of Polymeric Membranes

**Product Code**
JZ-016/C1 Tensile Testing of Polymeric Membranes

The JZ-016/C1 is designed to be used in Laboratories for Quality Control and Research on Plastics, Bituminous membranes and Compossed Materials.

- The machine comprises a compact two column frame with adjustable upper cross beam driven by an electro-mechanical ram with a maximum capacity of 50 kN and a data acquisition system.
- The measuring system consists of a 20 kN capacity chain gauge load cell is fitted to the upper cross beam.
- The distance between grips 30 cm and grips’ width is 5 cm which is appropriate

- **TS 13047 samples**
- **Adjustable loading speed**
- Comes complete with grips device.
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<tr>
<td>1 N</td>
<td>0.101197 kgf</td>
</tr>
<tr>
<td>1 kN</td>
<td>1000 N</td>
</tr>
<tr>
<td>1 kgf</td>
<td>9.80665 N</td>
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<tr>
<td>1 lbf</td>
<td>0.45359 kg</td>
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### MASS

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<tr>
<td>1 kg</td>
<td>1000 g</td>
</tr>
<tr>
<td>1 g</td>
<td>0.000001 t</td>
</tr>
<tr>
<td>1 t</td>
<td>1000 kg</td>
</tr>
<tr>
<td>1 cwt</td>
<td>0.984221 cwt</td>
</tr>
<tr>
<td>1 lb</td>
<td>0.45359 kg</td>
</tr>
<tr>
<td>1 oz</td>
<td>0.000035 kg</td>
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### CAPACITY, VOLUME

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<tr>
<td>1 m³</td>
<td>1.30795 yd³</td>
</tr>
<tr>
<td>1 dm³ (litre)</td>
<td>0.001 m³</td>
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<tr>
<td>1 cm³ (ml)</td>
<td>0.06102 in³</td>
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<tr>
<td>1 yd³</td>
<td>0.76455 m³</td>
</tr>
<tr>
<td>1 ft³</td>
<td>0.0283169 m³</td>
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<tr>
<td>1 in³</td>
<td>0.0016387 m³</td>
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<tr>
<td>1 imp gal</td>
<td>4.54609 dm³</td>
</tr>
<tr>
<td>1 US gal</td>
<td>3.78541 dm³</td>
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<tr>
<td>1 pint</td>
<td>0.558152 dm³</td>
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<tr>
<td>1 fl oz</td>
<td>28.4131 cm³</td>
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### LENGTH

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<td>1 m</td>
<td>3.281 ft</td>
</tr>
<tr>
<td>1 km</td>
<td>0.621 mile</td>
</tr>
<tr>
<td>1 yard</td>
<td>0.9144 m</td>
</tr>
<tr>
<td>1 ft</td>
<td>0.3048 m</td>
</tr>
<tr>
<td>1 in</td>
<td>25.4 mm</td>
</tr>
<tr>
<td>1 mile</td>
<td>1.6094 km</td>
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### PRESSURE, STRESS

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<td>1 Pa (N/m²)</td>
<td>0.01 mbar</td>
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<tr>
<td>1 kPa (kN/m²)</td>
<td>0.101197 kgf</td>
</tr>
<tr>
<td>1 bar</td>
<td>101.325 kPa</td>
</tr>
<tr>
<td>1 atm</td>
<td>1.01325 bar</td>
</tr>
<tr>
<td>1 mm Hg (torr)</td>
<td>0.75006 mm Hg</td>
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### DENSITY

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<td>1 kg/m³</td>
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<tr>
<td>1 g/cm³</td>
<td>62.4260 lb/ft³</td>
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<tr>
<td>1 ton/yard³</td>
<td>132.94 kg/m³</td>
</tr>
<tr>
<td>1 lb/ft³</td>
<td>0.593 kg/m³</td>
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<tr>
<td>1 lb/in³</td>
<td>27.6799 g/cm³</td>
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### ENERGY

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<td>1 J</td>
<td>0.737562 ft lb</td>
</tr>
<tr>
<td>1 kgf m</td>
<td>9.80665 J</td>
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<tr>
<td>1 Btu</td>
<td>1.05506 kJ</td>
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